

00:26:30 Trena Wilkerson: Hello from Waco, TX!
00:26:31 Cindy Bryant: Greetings from Springfield, MO! Please set your chat to "All panelists and attendees" so everyone can see your chat posts.
00:26:59 Maria Padiernos: Hello from Detroit, MI
00:27:10 Judy Radigan: HI I am Judy from Maine at least 50!
00:27:10 Nora Marasigan: Hello from Philippines.
00:27:12 Glenn Alford: Hello from Asheville, NC!
00:27:13 Michael Farina: hello from the adirondacks
00:27:14 Emily Mazur: Columbus, OH Maybe my 10th session
00:27:14 Nicole Walden: Columbus, Ohio >50
00:27:14 paloma carrera-Andino: hi from El Paso. Tx
00:27:23 Sharon Black-MacKinnon: Greetings from New Brunswick Canada. Grateful to be attending my 88th session:-)
00:27:24 Erica Burnison: Hello from Davis, CA. Lost count
00:27:28 Tanya Landry: HI from Baton Rouge!
00:27:29 Donna Misciagna: Tucson, AZ; about 40 - 50 sessions
00:27:30 Wanda Parker: Hi from Virginia. Session 21
00:27:30 Denise Griffiths: Delaware & 85 sessions
00:27:32 Jonathan Marcovitz: Greetings from Fort Lauderdale
00:27:32 Janet Turner: hello from mn
00:27:35 Trena Wilkerson: Be sure to change Chat to All panelists and attendees! :-)
00:27:37 Justin Klinger: Hello From Romeoville IL 40 something.webinar.
00:27:47 Lesly Brown: Hello from Knoxville, Tennessee. I have made them all and learned every evening!
00:27:47 Mary Dugas: HI!! Lafayette, LA
00:27:47 Lorie Huff: Hello from Fayetteville, Arkansas
00:27:50 LANY JAMERO: good morning from philippines
00:27:53 Michael Gougis: Hello from Chicago
00:27:56 Catherine VanNetta: Good evening from Baltimore, MD; 30ish webinar
00:28:01 Katie Racke: Hello from NoRthern KY
00:28:01 Debra Cowan: hello from Mastic Beach, NY
00:28:02 Nicole Walden: Hi Emily - I teach in South-Western City Schools
00:28:02 Catherine Tung: Hello from Los Angeles! 5th session
00:28:05 Alyssa Grivakis: Hello from Peabody MA, 8 sessions, learned about this later in the summer!
00:28:07 LeAnna Deveaux-Miller: Good Evening: From New Providence, THE BAHAMAS
00:28:11 Merideth Gray: Medina, Ohio
00:28:12 Melonie Smith: Hello from Chicago
00:28:12 Taryn Brown: Good evening; Jackson, MS Probably between 30-35 so far.
00:28:13 Trena Wilkerson: Hi Marilyn!
00:28:22 bonnie manzon: rubbing my eyes from vallejo calif
00:28:30 Cathleen Hincker: Hello from Danville, VA
00:28:32 George Roy: George from Columbia SC

00:28:34 Jolene Bresson: Hi from Rochelle, IL
00:28:34 Cherish Alberts: Hi from Virginia! I am not sure how many.
00:28:35 Erica Burnison: Davis CA – solano county
00:28:35 Tiffany Lace: Hi – Portland, OR, 20ish
00:28:37 Dave Hankin: Hello again from Globe, AZ\
00:28:37 Nicole Walden: Bonnie– lol
00:28:38 Letitia Malone: hello from Yuma arizona
00:28:39 Wisnu Siwi Satiti: Good morning from Indonesia!
00:28:42 jill brown: hi from Australia
00:28:45 Lisa Galanes: Hi from IL
00:28:45 bonnie manzon: birthplace of the nuclear sub
00:28:46 Eboney McKinney: Hello! From Sunny AZ
00:28:47 Olga Kosheleva: Hello from El Paso, TX, this is my 88
webinar.
00:28:56 Joyce Meier: Hello from Illinois!
00:29:01 Mohamed T: Greetings from Mohamed, CT.
00:29:03 Trena Wilkerson: HI Olga–Me, too!
00:29:10 Jacqueline Colbourne: 🙌 from Temple Hills, MD
00:29:17 Nicole Walden: Hi Emily – I teach in South–Western City
Schools – where do you teach?

00:29:35 Susan Bardenhagen: Hi, from soggy northern Virginia.
00:29:35 Nicole Walden: Bonnie – oh my
00:29:50 Nicole Walden: soggy in Ohio, too
00:29:54 Tameillia Cain: Hello from Atlanta!
00:29:55 Judy Radigan: Maine is soggy too!
00:30:02 Menchie Besa: Hi from Jacksonville, FL
00:30:12 Honey Sacro Swem: Hello from Redlands, CA
00:30:13 David Barnes: @Vickey – Welcome!
00:30:14 Susan Bardenhagen: @jacqueline, I used to live in
Temple Hills when I taught in Charles County 79–81
00:30:16 Ruby Maghirang: Hello from Baltimore, Maryland.
00:30:21 Eboney McKinney: I wish AZ was soggy...we need the rain!
00:30:29 Jolanta Sobolewska: Hello from Staten Island.
00:30:33 Lynn Lafferty: Hello from Erie, PA
00:30:39 Amy Cole: Hello from Boston, MA!
00:30:40 Letitia Malone: trade you frying hot for soggy
00:30:41 Nicole Walden: represent!
00:30:41 Lance Brauchla: Hello from IN
00:30:44 Jorge Veloso: Hi from Angola.
00:30:47 Dave Hankin: Every day is a good day to do math!
00:30:54 Sharon Black–MacKinnon: New Brunswick Canada is in need of a
steady rain for about 2 weeks
00:30:56 Betty Stallings: Hello from Portsmouth, VA. Nice and Sunny !!!
00:30:58 Todd Smallcanyon: Hello from Southern Utah
00:31:00 Nicole Walden: I'll keep soggy. I hate heat.
00:31:09 Sarah Waugh: Hello from Kingwood, WV!
00:31:13 Mary France Imperial: Hello from Philippines
00:31:16 Nicole Walden: Betty – got any spare rooms?
00:31:17 Mike Shaughnessy: HI Marilyn!!

00:31:38 David Barnes: @Linda - I think so. You might want to drop off and come back.

00:31:56 Susan Bardenhagen: Yes, I wish we could engineer getting extra sogginess to extra dryness- water weighs so much to ship, though!

00:32:03 KEISHA SMITH: Hello from Montgomery AL

00:32:07 David Barnes: @Linda - Or expand your window.

00:32:17 Daniel Irving: Hello from North Providence, RI!

00:32:18 Emily Mazur: @Nicole I'm in Columbus City Schools

00:32:43 Nicole Walden: cool - I'm at Franklin Heights next door to West and Briggs

00:33:13 Emily Mazur: @Nicole I almost bought a house in that neighborhood! I work at Columbus Alternative

00:33:42 Emily Mazur: In the Linden area

00:34:26 Mohamed T: C

00:34:28 Nicole Walden: Emily - prob glad you didn't, but it's up and down from street to street. I actually live 45 min south at Deercreek State Park

00:34:38 Alma Miho: 3rd

00:35:02 Nicole Walden: I have a friend who lives in Linden. I met her at OSU.

00:35:22 Melissa Howard: What grade are you in and how many more month of school are left?

00:35:22 peter zirnis: hello from Canada

00:35:32 Melissa Howard: months*

00:35:58 Nicole Walden: Melissa - until retirement, lol?

00:36:07 Lesly Brown: Plan A. Plan C would only work better if you started in Pre-K and always did well.

00:36:31 Diane Briars: Hello from Pittsburgh. Great task to start!

00:36:33 Ratu Ilma Indra Putri: Plan A and C

00:36:48 Catherine Tung: 2 minutes

00:36:51 Lance Brauchla: Ready now

00:36:52 Tameillia Cain: ready now

00:36:56 Donna Misciagna: 2 min.

00:36:56 Francine Broussard: ready now

00:36:58 ALEX QUYENVO: ready

00:37:03 Ratu Ilma Indra Putri: ready

00:37:32 Cindy Bryant: Please set your chat to "All panelists and attendees" so everyone can see your chat posts.

00:37:46 David Barnes: <http://www.wgarym.info/100allowance>

00:38:01 bonnie manzon: my parents can take away my allowance at will and dont like me to logically argue. i ll take a, cuz you never know what will happen. a bird in the hand...

00:38:02 Justin Klinger: It all depends on the number of months. Smaller the months A, more B, If a lot C

00:38:05 Lynn Lafferty: C - The growth will go more each month as the 10% raise is on the previous amount.

00:38:07 Dave Hankin: It depends on how long you get the allowance, but with Plan C, Over the long run, you'll come out much better...

00:38:08 Brea Ratliff: I'm going with C!
00:38:12 Julie Leckman: First is linear, other 2 exponential. B is less than 1% so C for a 10% raise on balance.
00:38:13 Amanda Egan: I'd say C
00:38:13 Ana Alcaraz: depends on the number of months
00:38:15 Anissa Nemetz: B passes A at 30
00:38:20 Lance Brauchla: Need to know time frame.
00:38:22 Michael Tomeo: depends on the time you have
00:38:25 Amy Cole: Plan C: exponential growth
00:38:30 Julie Leckman: time frame is important
00:38:32 Tanya Landry: Depends on what kind of student I am.
00:38:39 Ethan Weker: When do I start and how long does this keep up? Are my parents still doing it for me? (I'm 45 and I don't think they can afford it.)
00:38:42 Karen Tooman: Place C
00:38:46 Maria Padiernos: 3rd, I think, d is a geometric series
00:38:49 Donna Misciagna: Over time, you'll make more with plan 3
00:38:54 Jolanta Sobolewska: at first is plan A but after some time is C
00:39:00 Julie Leckman: ;-)
00:39:25 Chonda Long: <http://www.wgarym.info/100allowance>

00:39:38 Malahayati Malahayati: plan C
00:40:05 Shana Frank: Are we considering the total earned to date or just the amount earned in a given month?
00:40:17 Mike Shaughnessy: Watch out Vickey, you're son will take you to the bank!
00:40:56 Karen Tooman: I would definitely use Excel
00:41:20 Karen Tooman: Linear
00:42:26 Amanda Egan: 1.10
00:42:27 Ethan Weker: \$1.10
00:42:28 David Barnes: 1.10
00:42:35 Sharon Black-MacKinnon: 1.10
00:42:38 Taryn Brown: 1.10
00:42:44 Sharon Black-MacKinnon: 1.21 for the next
00:42:49 Amanda Egan: 1.21
00:43:24 Cindy Bryant: Please set your chat to "All panelists and attendees" so everyone can see your chat posts.
00:44:38 Melissa Howard: Exponential
00:44:38 Ana Alcaraz: exp
00:44:38 Nicole Walden: exp
00:44:39 Jolene Bresson: exponential
00:44:40 Amanda Egan: exponent
00:44:44 Ethan Weker: 1.1^n
00:44:44 Amy Cole: exponential
00:44:45 Taryn Brown: Exponential
00:44:47 Wisnu Siwi Satiti: exponential growth
00:44:53 ALEX QUYENVO: exponential - so powerful lately
00:45:12 Alma Miho: exponential $c(x) = 10 * 1.1^x$
00:45:23 Susan Bardenhagen: 50

00:45:26 Amanda Egan: .50
 00:45:26 Cindy Bryant: 50
 00:45:27 Todd Smallcanyon: .50
 00:45:28 David Barnes: .50
 00:45:28 Laura Morris: .50
 00:45:40 Todd Smallcanyon: next is .75
 00:47:18 Ethan Weker: Triangular numbers!
 00:47:55 Cindy Bryant: Love the Gauss story.
 00:48:19 ALEX QUYENVO: 50
 00:49:29 Nicole Walden: quad
 00:49:29 Laura Morris: quadratic
 00:49:31 Wisnu Siwi Satiti: B: quadratic
 00:49:32 Jolanta Sobolewska: quadratic
 00:49:32 Catharine Romano: quad
 00:49:32 Sharon Black-MacKinnon: quadratic
 00:49:34 Mike Shaughnessy: Our first quadratic quandary!
 00:49:35 Taryn Brown: Quadratic
 00:49:36 Cherish Alberts: quadratic
 00:50:48 Nicole Walden: it grew exponentially!
 00:50:49 Mike Shaughnessy: Eventually exponential reign!
 00:50:50 Sarah Waugh: Are you allowed to switch plans?
 00:51:07 Laura Morris: depending on the number of months
 00:51:07 Jolanta Sobolewska: plan c exponential function
 00:51:11 David Barnes: <http://www.wgarym.info/100solution>
 00:51:12 Amanda Egan: Good question Sarah LOL
 00:51:19 Nicole Walden: sarah-after 1 year
 00:51:20 MICHAEL KAROLEWICZ: Stop paying the allowance at month
 20.
 00:51:45 Jolene Bresson: $y=mx +b$
 00:51:46 Ethan Weker: $ax+b$
 00:51:46 Nicole Walden: like insurance benefits
 00:51:47 Melissa Howard: $y=mx+b$
 00:51:49 Jolanta Sobolewska: $y = mx + b$
 00:51:50 Kathy Rubendall: $y=mx+b$
 00:51:50 Melinda Fleischer: $y-mx+b$
 00:51:54 ALEX QUYENVO: $y= mx = b$
 00:51:55 Melinda Fleischer: $*$
 00:51:56 Nicole Walden: $ax+by = c$
 00:51:58 Sharon Black-MacKinnon: $Ax + By + C$
 00:52:00 Justin Klinger: $ax +by = c$
 00:52:02 Trena Wilkerson: Love that 'It depends"! Room for lots of
 mathematical discourse and supports reasoning and sense-making!
 00:52:02 Wisnu Siwi Satiti: $y=mx+b$
 00:52:09 Taryn Brown: $y = mx + b$ or $Ax + By = C$
 00:52:15 Nicole Walden: $f(x) = mx+b$
 00:52:17 Ethan Weker: $y=m(x-x_1)+y_1$
 00:52:30 Amanda Egan: Slope-intercept form
 00:52:31 Justin Klinger: $y=ab^x$
 00:52:32 MICHAEL KAROLEWICZ: I'm teaching from the parent
 function of linear, quadratic, exponential.

00:52:34 Melissa Howard: $y=ab^x$
 00:52:36 Amy Cole: $Y = ab^x$
 00:52:36 Jolanta Sobolewska: $y = ab^x$
 00:52:36 Amanda Egan: $a(b^x)$
 00:52:38 Kathy Rubendall: $y=x(b)^x$
 00:52:50 Jolene Bresson: $a(b)^x$
 00:52:53 Wisnu Siwi Satiti: $y=a(b^x)$
 00:52:56 Janet Bernard: Standard Fprm
 00:53:00 MICHAEL KAROLEWICZ: $y = ax^2 +bx +c$
 00:53:01 Justin Klinger: $y=ab^2 +bx+c$
 00:53:01 Nicole Walden: Michael?
 00:53:02 Todd Smallcanyon: $y=ax^2+bx+c$
 00:53:03 Karen Tooman: $y = ax^2 + bx + c$
 00:53:04 Amy Cole: $y=ax^2 +bx+c$
 00:53:37 Justin Klinger: $y=(x-h)^2+k$
 00:53:57 Michael Tomeo: $y=4x-2$
 00:54:05 Dave Hankin: $y =4x$
 00:54:18 Ana Alcaraz: $y=4x-2$
 00:54:28 Wisnu Siwi Satiti: $y=4x-2$
 00:54:29 Judy Radigan: $y= 4x-2$
 00:54:29 Sharon Dawkins: $y=4x-2$
 00:54:33 MICHAEL KAROLEWICZ: point=slope form
 00:54:34 Amanda Egan: $y=4x-2$
 00:54:38 Ethan Weker: $y=4(x-1)+2$
 00:54:43 Jolanta Sobolewska: $y=4x-2$
 00:54:55 Sharon Black-MacKinnon: $y= 4x-2$
 00:55:09 Pauline Oji: can you put the link again
 00:55:20 Nicole Walden: she didn't want 4x, she hit enter too early
 00:55:39 Jolanta Sobolewska: you need a calculator
 00:55:55 Tanya Landry: $b = 3$
 00:55:56 jill brown: $a=2$
 00:55:59 Jolene Bresson: 3
 00:56:15 Lona Armstrong: $y=2/3(3)^x$
 00:56:22 Tanya Landry: $a = 2/3$
 00:56:52 Nicole Walden: vertex?
 00:56:54 Alyssa Grivakis: Third point?
 00:57:04 Mike Shaughnessy: Could be several...
 00:57:05 jill brown: many functions :)
 00:57:08 Nicole Walden: $a = -?$
 00:57:10 Amy Cole: Need third pt
 00:57:51 Nicole Walden: fun to play on desmos
 00:58:05 jill brown: :)
 00:58:09 ALEX QUYENVO: haha...
 00:58:13 Cherish Alberts: I have!
 00:58:16 Amanda Egan: 👍
 00:58:30 Kathy Rubendall: link to Desmos?
 00:58:47 Ana Alcaraz: LEQ
 00:58:48 Judy Radigan: LEQ
 00:58:50 Hannah Prawzinsky: LEQ
 00:58:50 jill brown: leq

00:58:50 Ethan Weker: LEQ
00:58:51 Laura Morris: L E Q
00:58:51 Karen Tooman: LEQ
00:58:51 Chonda Long: <http://www.wgarym.info/100desmos>

00:58:52 Lona Armstrong: LEQ
00:58:52 Rebecca Nachbin: LEQ
00:58:53 Emily Mazur: LEQ
00:58:54 Sarah Waugh: LEQ
00:58:54 Wisnu Siwi Satiti: LEQ
00:58:55 Julie Leckman: LEQ
00:58:55 Catherine VanNetta: LEQ
00:58:55 Chonda Long: <http://www.wgarym.info/100desmos>

00:58:55 Amanda Egan: LEQ
00:58:55 MICHAEL KAROLEWICZ: leq
00:58:56 Catharine Romano: LEQ
00:58:57 Justin Klinger: LEQ
00:58:58 Erica Dieden: LEQ
00:58:58 Jolanta Sobolewska: LEQ
00:58:59 Daniel Irving: LEQ
00:58:59 Michael Tomeo: leq
00:58:59 Merideth Gray: LEQ
00:59:00 Jolene Bresson: LEQ
00:59:02 Chonda Long: <http://www.wgarym.info/100desmos>

00:59:04 Tameillia Cain: LEQ
00:59:05 Diane Briars: LEQ
00:59:06 Dave Hankin: LEQ
00:59:07 David Barnes: <http://www.wgarym.info/100desmos>
00:59:09 Alyssa Grivakis: LEQ
00:59:10 Barbara Post: L E Q
00:59:11 Cherish Alberts: l e q
00:59:12 Mary France Imperial: leq
00:59:14 Catherine Tung: LEQ
00:59:19 Glenn Alford: LEQ
00:59:41 Karen Tooman: Zoom needs "pin a comment" feature!
00:59:42 Cindy Bryant: Please set your chat to "All panelists and attendees" so everyone can see your chat posts.
00:59:48 Nicole Walden: lol
01:01:41 Nicole Walden: when Jesus was born?
01:01:48 Nicole Walden: approx
01:01:56 ALEX QUYENVO: fun fact: summer 2019 my friends and I had fun making a linear function to the game between the U.S lady team and Thai team after 20 minutes. so we think with our "model" we'll score 9-0, but we scored 13-0 if I'm not wrong, talk about poor Thai girls got "beaten" up by the U.S ladies hihi...
01:02:19 Nicole Walden: hee hee
01:02:58 Nicole Walden: they were too busy surviving
01:04:19 Ana Alcaraz: scientific application

01:04:20 Tanya Landry: Practical reasons...
01:04:26 Julie Leckman: More natural models in life
01:04:30 MICHAEL KAROLEWICZ: earthbound problem solutions
01:04:31 Justin Klinger: physics
01:04:38 Nicole Walden: catapult - war
01:04:41 Alma Miho: Applications
01:04:51 Amanda Egan: Cell phone plans
01:04:52 Nicole Walden: rate
01:04:53 Laura Morris: buying data
01:04:56 Ethan Weker: Allowance (for my kids) - \$1 per grade in school
01:04:57 Jolene Bresson: plans
01:04:58 Julie Leckman: buying cars
01:05:00 Dave Hankin: constant plan
01:05:01 Jolene Bresson: salary
01:05:02 Tameillia Cain: rates
01:05:08 Tameillia Cain: spending
01:05:12 Anna Jacobs: Sales cost analysis
01:05:20 MICHAEL KAROLEWICZ: anything where rate change is constant
01:05:24 David Barnes: Paint a wall.
01:05:29 Kristina O'Connor: gym memberships
01:05:42 Todd Smallcanyon: area
01:05:43 Laura Morris: sports
01:05:45 Nicole Walden: catapult
01:05:45 Hannah Prawzinsky: falling objects
01:05:45 MICHAEL KAROLEWICZ: area
01:05:45 Ana Alcaraz: gravity
01:05:47 Laura Morris: rockets
01:05:47 Melonie Smith: dropping objects
01:05:47 Amanda Egan: gravity
01:05:48 Kristina O'Connor: area
01:05:48 Jolene Bresson: balls
01:05:49 Alma Miho: area
01:05:49 Justin Klinger: Gravity
01:05:49 Glenn Alford: Speed of falling objects
01:05:51 Tameillia Cain: arcs
01:05:54 Judy Radigan: Catapult
01:05:55 aurora gonzales: projectile motion
01:05:59 Tanya Landry: physical space - ideal storage
01:06:01 Randolph Chapman: Velocity
01:06:02 Dave Hankin: arc on a baseball toss
01:06:07 jill brown: astromony
01:06:20 Malahayati Malahayati: astronomy
01:06:22 Lorraine Platek: price v profit
01:06:25 Tameillia Cain: bridge arcs, roller coasters
01:06:35 Ana Alcaraz: half life
01:06:35 MICHAEL KAROLEWICZ: growth and decay
01:06:36 Jolene Bresson: diseases
01:06:37 Alyssa Grivakis: population

01:06:37 Kristina O'Connor: chemistry
 01:06:37 Hannah Prawzinsky: loans and savings
 01:06:37 jill brown: correct astronomy
 01:06:38 Maria Padiernos: decay and growth
 01:06:38 Judy Radigan: Bacteria growth
 01:06:39 Laura Morris: bacteria growth
 01:06:40 Justin Klinger: chemistry decay
 01:06:40 Ethan Weker: weight gain in your 40's
 01:06:40 Michael Tomeo: population growth, money
 01:06:42 Nicole Walden: insurance
 01:06:44 Glenn Alford: Covid-19?
 01:06:46 aurora gonzales: population growth
 01:06:48 Dave Hankin: banking - interest earned
 01:06:49 Lorie Huff: Covid Cases
 01:06:51 Susan Bardenhagen: interest calculation
 01:06:51 Lorraine Platek: invasive species
 01:06:53 Justin Klinger: cellular growth
 01:07:02 Catherine Tung: meme popularity
 01:07:03 Maria Padiernos: nuclear science
 01:07:35 Deena Avigdor: physics
 01:08:07 Todd Smallcanyon: Nile flood
 01:08:24 MICHAEL KAROLEWICZ: maximum volume per minimum area
 01:08:42 Nicole Walden: rt=d on Nile
 01:08:47 Julie Leckman: LEQ
 01:08:48 MICHAEL KAROLEWICZ: LQE
 01:08:51 Laura Morris: LQE
 01:08:52 Hannah Prawzinsky: LEQ
 01:08:52 Kristina O'Connor: LEQ
 01:08:53 Rebecca Nachbin: LQE
 01:08:55 Q C: LQE
 01:08:56 Erica Burnison: LQE
 01:08:57 Diane Briars: LEQ
 01:08:59 Catherine Tung: LQE
 01:08:59 Judy Radigan: LQE
 01:09:01 Cherish Alberts: l q e
 01:09:01 Dave Hankin: LEQ
 01:09:06 Deena Avigdor: LQE
 01:09:06 Alyssa Grivakis: loe
 01:09:08 Jolanta Sobolewska: LQE
 01:09:08 Justine Henning: LQE
 01:09:08 Jolene Bresson: LEQ
 01:09:17 Maria Padiernos: QEL
 01:09:19 Erica Dieden: LEQ
 01:09:19 Sarah Waugh: LEQ
 01:09:26 Alyssa Grivakis: Sorry! LQE
 01:09:29 Cathleen Hincker: LEQ
 01:09:46 Michael Gougis: LEQ
 01:09:50 Judy Radigan: Let the student decide!
 01:09:50 Ethan Weker: LEQ
 01:10:14 MICHAEL KAROLEWICZ: pumpkin chuckin with quadratics

01:10:19 Erica Dieden: LQE
01:10:45 Julie Leckman: But aren't most contexts for STEM or STEAM exponential
01:10:55 Maria Padiernos: nope
01:10:59 Alyssa Grivakis: Nope
01:11:01 Tanya Landry: Hard to do tile patterns with exponentials...
01:11:05 Ethan Weker: I used that same book! (And still have a copy)
01:11:08 Laura Morris: that looks like my college algebra book
01:11:25 Maria Padiernos: never heard of it
01:11:31 MICHAEL KAROLEWICZ: not with trig, did trig in Geometry
01:11:39 Nicole Walden: "gold" standard
01:11:45 Trena Wilkerson: I used the red Algebra I Dolciani! :-)
01:11:48 Susan Bardenhagen: My HS called alg2trig Fusion course...
01:11:58 Lois Hertz: dolciani rocks.
01:12:03 Lorraine Platek: My high school book. :)
01:12:19 Julie Leckman: E
01:12:27 Lois Hertz: is it true that she refused changes after her death?
01:12:58 Julie Leckman: Hummm
01:12:58 Nicole Walden: I don't think she refused anything after her death.
01:13:16 Maria Woehl: LOL!!!
01:13:57 Pamela Liegl: I remember using Dolciani back in the 70s and 80s, fondly.
01:15:17 Lois Hertz: no, the rumor is that her will didn't allow her estate to permit changes for 50 years.
01:15:20 MICHAEL KAROLEWICZ: we are taking an integrated math approach, no more Alg 1, etc.
01:15:23 Susan Bardenhagen: What was the text for the late 60s? I remember a fat green covered book...
01:15:25 Justin Klinger: NO QUADRATICS UNTIL ALGEBRA 2
01:15:59 Lois Hertz: we don't have quadratics in the first course.
01:16:09 Jolene Bresson: Alg 1 - all linear with mastery
01:16:13 jill brown: linear equations embeded in linear functions so a multi-representation approach, then linear and exp functions together
01:16:18 Mike Shaughnessy: Start with functions, all of them, in the first course.
01:16:22 Susan Bardenhagen: Where should Geometry be?
01:16:23 Laura Morris: please quadratics, just not a complete understanding
01:16:27 Jolene Bresson: Introduce Quadratics but mastery in Alg 2
01:16:27 Ethan Weker: I wonder if there's merit to starting with functions, and wait on solving until later
01:16:32 Maria Padiernos: Since area is introduced in 4th grade, then quadratics during middle school
01:16:38 Nicole Walden: dolciani (changes) <http://giftedissues.davidsongifted.org/BB/ubbthreads.php/topics/172744/>

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01:16:41 Anna Jacobs: Integrated 1 only linear, previewed in 8th grade

01:16:43 Hannah Prawzinsky: yes – improve mastery and depth of knowledge with linear in 8th and 9th grade.

01:16:44 Lois Hertz: factoring in the eighth grade

01:16:44 Justin Klinger: Mastery of Linear, then exponentials in A1

01:16:46 Jolene Bresson: 8th graders don't have the understanding to grasp quadratics

01:16:47 Mike Shaughnessy: Then move to solving equations

01:16:49 Julie Leckman: Exposure to all three functions in 8th and equations stopped

01:16:50 Karen Tooman: Linear in 8th

01:16:57 Karen Tooman: Quadratic in Algebra 1

01:17:02 Kristina O'Connor: mastery of linear equations and functions in algebra I

01:17:12 Karen Tooman: Exponential in Algebra 1 and Algebra 2

01:17:15 Jolanta Sobolewska: 8 linear, quadratics Algebra 1 and exponential Algebra 2

01:17:22 Diane Briars: Exponentials after linears allows for comparison of linear growth vs multiplicative growth

01:17:44 Michael Gougis: The technology with graphing calculations allows us to cover all three at once.

01:17:49 Karen Tooman: I have taught quadratics in all 3 classes and the best fit is Algebra 1 and Algebra 2.

01:17:51 Catherine VanNetta: Teaching functions first gives a better understanding of the word, "variable."

01:18:07 Lois Hertz: it is indeed.

01:18:34 Lois Hertz: see? I asked a good question.

01:18:36 Jolene Bresson: @Karen....it makes since! Late Algebra 1 then hit it hard in Alg 2

01:18:39 Pamela Liegl: Gary thanks for the history perspective and ideas.

01:18:51 Catherine Tung: I would like to change what is expected for me to teach in Algebra 1 but that also depends on what the Algebra 2 teachers expect and if they'll change their curriculum.

01:18:53 Ethan Weker: Anecdotally – Dolicani was beloved by people who identified as math people, but seemed inaccessible to anyone who didn't already feel comfortable.

01:18:55 Amy Cole: Thank you!

01:19:01 Deena Avigdor: He didn't say he liked the book. He said it was the gold standard of the time.

01:19:07 Ethan Weker: I loved it at the time but cringe at it now.

01:19:09 Susan Bardenhagen: I'm old, what did teachers use in the 60s?

01:19:14 Tameillia Cain: yes Ethan

01:19:27 Tameillia Cain: it was in quotes

01:19:34 Lois Hertz: the books were better in one way. fewer pictures and more worked problems.

01:19:40 MICHAEL KAROLEWICZ: Great presentation, thanks!

01:19:45 Michael Gougis: Remember graphing calculators did not exist back then we were using slide rules.

01:19:47 Erica Dieden: I'm working with Mathematics Vision Project and the fusion of the maths is interesting

01:19:53 David Barnes: <http://www.wgarym.info/100exit>

01:19:58 Trena Wilkerson: Great session Gary! Important experience for us to engage in the mathematics! Thank you!

01:20:00 Chonda Long: <http://www.wgarym.info/100exit>

01:20:07 Nicole Walden: Susan – watch the NCTM100 on history of math ed

01:20:10 Tameillia Cain: Great presentation! We need a part 2

01:20:22 Justin Klinger: What is your professional opinion when should quadratics taught?

01:20:23 Julie Leckman: What do you think is a good resource for problem based explorations like you gave today. What is your favorite for classroom teachers?

01:20:26 Chonda Long: <http://www.wgarym.info/100exit>

01:20:27 David Barnes: A Cliff Hanger!

01:20:33 Mary Dugas: thank you

01:20:39 Nicole Walden: How can I give exp more attn?

01:20:51 Maureen Kishbaugh: relating history of functions to appropriate introduction of skills

01:20:55 Justin Klinger: That is way I signed UP

01:21:00 Mike Shaughnessy: Great exit slip, Gary!! And a terrific example of how an online a session can become interactive.

01:21:01 Karen Tooman: You have given us a lot to think about and explore. Thank you!

01:21:05 Justin Klinger: I want an answer

01:21:10 Justin Klinger: LOL

01:21:11 Nicole Walden: Justin – lol

01:21:20 Jolanta Sobolewska: I really like how you give two points and asked to write and compare the three functions.

01:21:22 Julie Leckman: Unsure about a lot – new to teaching Alg 1 and 2

01:21:24 Deena Avigdor: Thank you! this was very interesting re: the math and how to teach virtually.

01:21:33 Mike Shaughnessy: My takeaway, don't let those quadratics drift away!

01:21:35 Tameillia Cain: More ways to build the LEQ relationship to each other

01:21:43 Lona Armstrong: Thank you.

01:21:46 Amanda Egan: 🍌

01:21:53 jill brown: Thanks Gary, great session

01:21:56 Kathy Rubendall: Great session. Thank you!

01:21:59 Daniel Irving: Thank you for this incredible presentation!

01:22:02 Tameillia Cain: it was awesome! i still struggle!

01:22:04 Lelia-allison Tsui: Thank you so much

01:22:04 aurora gonzales: I like the inputs about history of math

01:22:05 Justin Klinger: Thank you Gary It was helpful
01:22:06 Julie Leckman: Thank you – super helpful! You are great and I will seek out more of your resources.
01:22:06 Mohamed T: Amazing!
01:22:06 Nora Marasigan: Thank you so much!
01:22:08 Nicole Walden: You ran the whole thing well. I concur regarding your chat monitoring.
01:22:08 Tameillia Cain: with time
01:22:09 Catherine Tung: Thank you for a very informative session! I've got a lot to think about.
01:22:10 Malahayati Malahayati: thank you. nice presentation. awesome
01:22:11 Lesly Brown: Thank you. it was a good presentation. It helps you as a teacher helps the students think more in depth.
01:22:12 Justine Henning: Thanks, Everyone.
01:22:13 Cathleen Hincker: Thank you for your word of wisdom!
01:22:18 aurora gonzales: thank you sir..
01:22:18 Jonathan Marcovitz: Thanks.
01:22:22 Jolanta Sobolewska: I really enjoyed it.
01:22:24 Olga Kosheleva: Thank you very much!
01:22:28 Ethan Weker: Thanks so much – great thinking opportunities throughout!
01:22:32 Laura Morris: Thank you!
01:22:35 Chonda Long: www.nctm.org
01:22:35 Honey Sacro Swem: Thank you so much!
01:22:36 Tameillia Cain: nctm!!!!
01:22:39 Sharon Black-MacKinnon: Thank you so much!!
01:22:40 Cheryl Ann Doyle E Barran: Thank you food for thought.
01:22:41 Catherine VanNetta: Both linear and exponential functions are strictly increasing or decreasing.
01:22:42 Karen Tooman: Cindy utilize Discover Education and Illuminations
01:22:48 Wanda Parker: Thank you!
01:22:52 Maria Woehl: Thank you Gary, I like the history of these functions and how you presented the problems.
01:23:03 Maureen Kishbaugh: Thank you for your insights.
01:23:03 Chonda Long: <https://illuminations.nctm.org/>
01:23:12 Diane Briars: Also important to consider what today's technology makes possible that would have been very difficult years ago, especially regarding exploring exponential vs quadratic growth.
01:23:29 Marilyn E. Strutchens: Thank you! Great job!
01:23:32 Mohamed T: EngageNY
01:23:49 Mohamed T: Eureka math
01:23:53 Taryn Brown: I've always feared teaching exponential functions. However, after tonight, I realize they're not so difficult and I see them so differently. Thank you! I appreciate the historical perspective you shared on all three tonight as well.
01:23:57 Cindy Bryant: That's a good point Diane!
01:23:58 Nicole Walden: DEmana Waits Foley
01:24:05 Barbara Post: thank you,

01:24:13 Michael Gougis: Slide rules and log tables in books.
01:24:15 Ethan Weker: Absolutely – technology can take away the burden of solving/calculations, and allows you to focus on the bigger picture.
01:24:16 Jolanta Sobolewska: desmos is great too
01:24:21 Julie Leckman: Thank you Diane
01:24:22 Michael Farina: thank you guys!
01:24:34 Susan Bardenhagen: And, it didn't require thinking, just insert the logs. But, that also led to not understanding abstract concepts.
01:24:41 Lance Brauchla: Thanks all!
01:24:45 Marcie Vaiphei: Thank you
01:24:48 Chonda Long: <https://www.nctm.org/Standards-and-Positions/Focus-in-High-School-Mathematics/Reasoning-and-Sense-Making-Task-Library/>
01:24:53 Lorie Huff: Great session! Thank you!
01:24:55 Amanda Egan: Thank you
01:24:58 Nicole Walden: Foley has some PD out of OU in Math Modeling and a textbook to match
01:25:07 Julie Leckman: Thank you Chonda
01:25:08 Chonda Long: https://www.nctm.org/Standards-and-Positions/Focus-in-High-School-Mathematics_-Reasoning-and-Sense-Making/
01:25:15 Wisnu Siwi Satiti: Great presentation! Thank you so much Gary! Great math activities! It gives me opportunity to explore more. Thank you.
01:25:22 Amanda Egan: Thank you
01:25:31 Kristina O'Connor: Thank you!
01:25:31 Erica Dieden: Thank you :)
01:25:32 Eboney McKinney: thank u
01:25:35 Sharon Dawkins: This was awesome thank you
01:25:37 Susan Bardenhagen: Thank you!
01:25:39 Diane Briars: Thank you so much, Gary! Great presentation!
01:25:40 Letitia Malone: thank you
01:25:40 Dave Hankin: Thank you again from Globe, Arizona....
01:25:41 Cherish Alberts: Thank you!!
01:25:42 Barbara Post: Especially in this day when we see so much exponential in the world. students need to understand what it means,.
01:25:42 Emily Mazur: thanks
01:25:43 Rowena Armachuelo: Thank you! This is great! Stay safe everyone
01:25:45 Anna Jacobs: Thanks!
01:25:46 Maria Padiernos: Love math for the sake of Math!!! thanks!!!
01:25:46 Cindy Bryant: Great session Gary! Thanks you!
01:25:47 Deena Avigdor: thank you again!
01:25:52 Daniel Irving: Thank you again!
01:25:55 Lance Brauchla: Thanks for the link Chondra~
01:25:55 Justin Klinger: Thank you
01:25:57 Jolanta Sobolewska: thank you
01:26:03 Tameillia Cain: Thank you! Look forward to part 2! 😎
01:26:13 Joyce Hodge: Thanks so much. great presentation

01:26:19 Melonie Smith: Great presentation, Gary! Thank you!
01:26:19 Mary France Imperial: Thank you so much
01:26:21 Chris Mann: thank you
01:26:45 Jolene Bresson: Thank you! I just want to do what is best
for my students!
01:26:57 Tanya Landry: Thank you. Pretty cool stuff.
01:27:20 Chonda Long: <https://www.nctm.org/change/>
01:28:06 Susan Bardenhagen: definitely saw blades!!
01:28:22 W. Gary Martin: Saw blades!
01:28:23 Daniel Irving: I cannot wait for the Catalyzing Change Pre-
Conference Virtual Workshop in November!
01:28:47 Chonda Long: <https://www.nctm.org/virtual2020/>
01:29:10 Trena Wilkerson: So excited about the upcoming virtual NCTM
Conference! Hope to see you all there!
01:29:44 Melonie Smith: The Certificate from yesterday's webinar
hasn't been sent out.