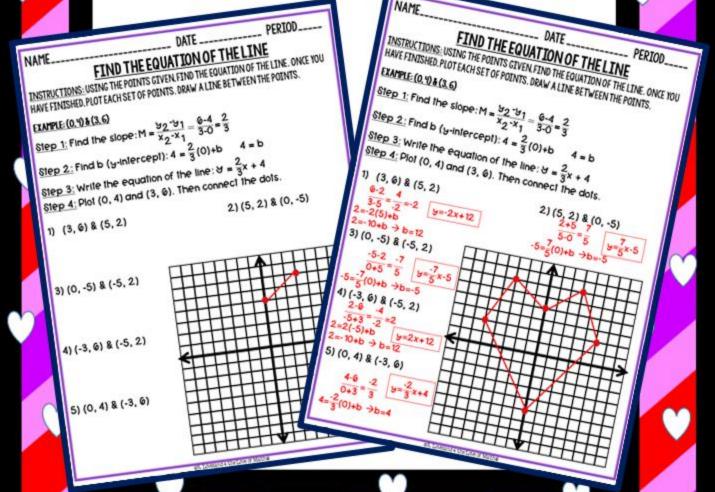
Valentine's Day Practice: Find the Equation of a Line Given Two Points















Thank you for your purchase! I am truly honored you chose to purchase a resource that I created. Once you have used the resource make sure to come back and leave feedback. Leaving feedback allows you to earn credit that can later be used towards your TpT purchases! - Randi

This resource comes with a personal use license

YOU MAY:

PRINT & USE THIS PRODUCT IN YOUR OWN CLASSROOM AND/OR WITH YOUR OWN STUDENTS.

PURCHASE ADDITIONAL LICENSES AT A DISCOUNTED PRICE

YOU MAY NOT:

GIVE THIS RESOURCE TO FRIEND OR COLLEAGUES WITHOUT PURCHASING A LICENSE FOR THEM

POST THIS ON A WEBSITE FOR DOWNLOAD. THIS INCLUDES PUBLIC PERSONAL WEBSITES, DISTRICT WEBSITES.ETC

POST THIS ITEM OR ANY PART OF IT FOR SALE OR FOR FREE

This item is a paid digital download. As such, it is for use in one classroom (or by one teacher) only. This item is bound by copyright laws and redistributing, editing, selling, or posting this item (or any part thereof) on the Internet are all strictly prohibited without first gaining permission from the author.

Violations are subject to the penalties of the Digital Millennium Copyright Act.

FONTS & CLIP ART USED ARE FROM:



Join my newsletter for tips, resources, exclusive freebies, sales and coupon codes delivered to your inbox!

CLICK HERE FOR NEWSLETTER X

INSTRUCTIONS:

THIS IS A QUICK 5 PROBLEM HAND OUT TO GIVE STUDENTS. STUDENTS WILL FIND THE EQUATION OF A LINE GIVEN TWO POINTS. ONCE THEY ARE FINISHED, THEY WILL PLOT THE TWO POINTS GIVEN AND DRAW A LINE BETWEEN THEM. THEY CAN USE THIS TO DOUBLE CHECK THAT THEY FOUND THE CORRECT SLOPE FOR THEIR EQUATIONS! THE LINE STUDENTS PLOT WILL MAKE THE SHAPE OF A HEART. STUDENTS WHO FINISH EARLY CAN DECORATE THE HEART AND/OR THE PAGE.

THIS WOULD MAKE A GREAT WARM UP ACTIVITY AND CAN BE HUNG AROUND THE ROOM LATER!

IF YOU HAVE ANY QUESTIONS, COMMENTS, AND/OR SUGGESTIONS, PLEASE USE THE Q & A SECTION ON TPT TO CONTACT ME, OR EMAIL ME AT:

RANDI@4THELOVEOFMATH.COM

THANK YOU!

NAME_____ PERIOD____

FIND THE EQUATION OF THE LINE

<u>INSTRUCTIONS:</u> USING THE POINTS GIVEN, FIND THE EQUATION OF THE LINE. ONCE YOU HAVE FINISHED, PLOT EACH SET OF POINTS. DRAW A LINE BETWEEN THE POINTS.

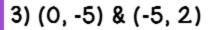
EXAMPLE: (0,4) & (3,6)

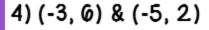
Step 1: Find the slope:
$$M = \frac{92^{-9}1}{x_2^{-x_1}} = \frac{6 \cdot 4}{3 \cdot 0} = \frac{2}{3}$$

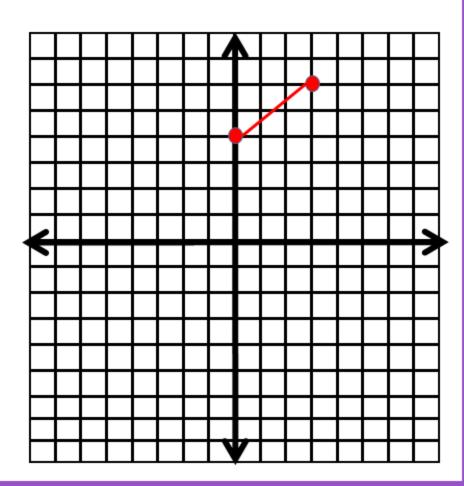
Step 2: Find b (y-intercept):
$$4 = \frac{2}{3}(0) + b$$
 $4 = b$

Step 3: Write the equation of the line:
$$\forall = \frac{2}{3}x + 4$$

Step 4: Plot (0, 4) and (3, 6). Then connect the dots.







NAME_____

FIND THE EQUATION OF THE LINE

INSTRUCTIONS: USING THE POINTS GIVEN, FIND THE EQUATION OF THE LINE. ONCE YOU HAVE FINISHED, PLOT EACH SET OF POINTS. DRAW A LINE BETWEEN THE POINTS.

EXAMPLE: (0,4) & (3,6)

Step 1: Find the slope:
$$M = \frac{92^{-9}1}{x_2 - x_1} = \frac{6 - 4}{3 - 0} = \frac{2}{3}$$

Step 2: Find b (y-intercept):
$$4 = \frac{2}{3}(0) + b$$
 $4 = b$

Step 3: Write the equation of the line:
$$\forall = \frac{2}{3}x + 4$$

Step 4: Plot (0, 4) and (3, 6). Then connect the dots.

$$\frac{6-2}{3-5} = \frac{4}{-2} = -2$$
 $y = -2x + 12$

$$2=-2(5)+b$$

$$2=-10+b \rightarrow b=12$$

$$\frac{-5-2}{0+5} = \frac{-7}{5} \qquad y = \frac{-7}{5} x - 5$$

$$-5 = \frac{-7}{5}(0) + b \Rightarrow b = -5$$

$$\frac{-5+3}{-5+3} = \frac{-2}{-2} = 2$$

$$\frac{2-0}{-5+3} = \frac{-4}{-2} = 2$$

$$2=2(-5)+b$$

$$y=2x+12$$

$$2=-10+b \rightarrow b=12$$

$$\frac{4-6}{0+3} = \frac{-2}{3}$$
 $y = \frac{-2}{3}x+4$

$$4 = \frac{-2}{3}(0) + b \rightarrow b = 4$$

$$\frac{2+5}{5-0} = \frac{7}{5}$$

$$-5 = \frac{7}{5}(0) + b \Rightarrow b = -5$$

