

First & Last Name: _____ Period: _____ ID: A

Directions: Show ALL thinking and circle your final solutions to earn maximum credit. Each question will be graded using the 5-point rubric that can be found in your syllabus. You may use a calculator on this quiz. Each question is worth 5 points unless noted. Do your best and know that I am rooting for you!

"Tell the truth - all the time." - Randy Pausch

TWMM Finding Linear Equations Algebra 8r (Mazzeo 2013)

Short Answer

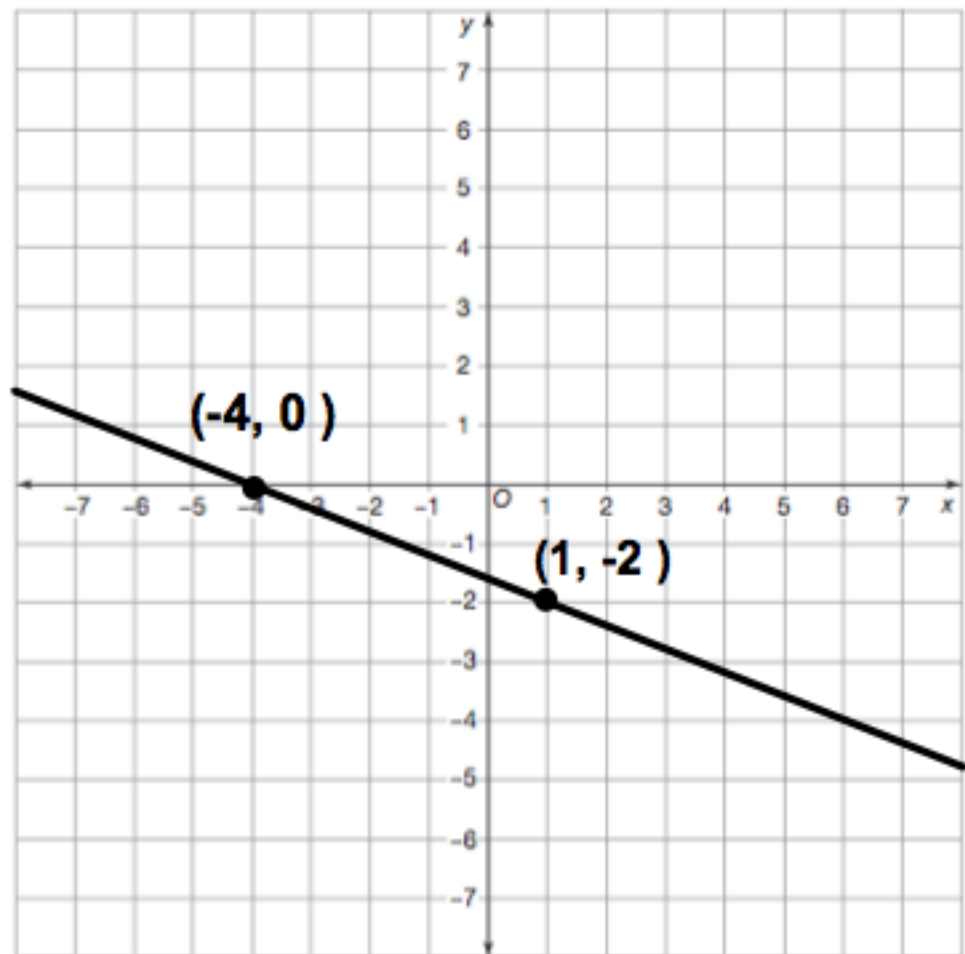
1. Find the equation of a line passing through the point $(-2, -40)$ and having a slope of 12.

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2. Find the equation of the line parallel to the line $y = \frac{2}{5}x + 23$ and passing through the point $(20, -48)$.

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3. Find the equation of the line shown on the graph below. Hint: The y-intercept is not -1.5. (10 points)



4. Find the equation of the line using the given table:(10 points)

x	9	18	54	99
y	-55	-50	-30	-5

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5. State whether the table below represents a linear relationship and how you know. (10 points)

x	5	7	10	14
y	14	14.8	16	17.6

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6. Find the equation of the line passing through the points $(-4, -20)$ and $(8, 22)$. Be sure to show your thinking using the slope formula and $y = mx + b$ form. (10 points)

7. BONUS question worth 5 points.: Solve the KENKEN puzzle.

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Answer Section**SHORT ANSWER**

1. $y = 12x - 16$

2. $y = \frac{2}{5}x - 56$

3. $y = -\frac{2}{5}x - 1.6$

4. $y = \frac{5}{9}x - 60$

5. Yes it is linear. Has a constant rate of change. Slope is 0.4 and equation is $y = 0.4x + 12$

6. $y = 3.5x - 6$

7. KENKEN puzzle