

APRIL 5, 2016

UNIT 6: LINEAR RELATIONS

MID-UNIT REVIEW

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MATH 9




WHAT'S THE POINT OF TODAY'S LESSON?

We will continue working on the Math 9 Specific Curriculum Outcome (SCO) "Patterns and Relations 2" OR "PR2" which states:

"Graph linear relations, analyze the graph and interpolate or extrapolate to solve problems."

EQUATIONS OF LINEAR RELATIONS:

$y = mx + b$ oblique 

\downarrow
slope; measures steepness

\rightarrow $b = y$ -intercept $m = \frac{\Delta y}{\Delta x}$
 $y = b$

\hookrightarrow horizontal —

$x = a$

\hookrightarrow vertical |

WARM-UP - Graph the following 6 LINEAR relations on the grid below:

$$y = \frac{3x + 5}{1} \quad \text{✓ } m = \frac{\Delta y}{\Delta x}$$

$$y = \frac{2x - 4}{1}$$

$$y - 3x = 0$$

$$y = \frac{3}{1}x$$

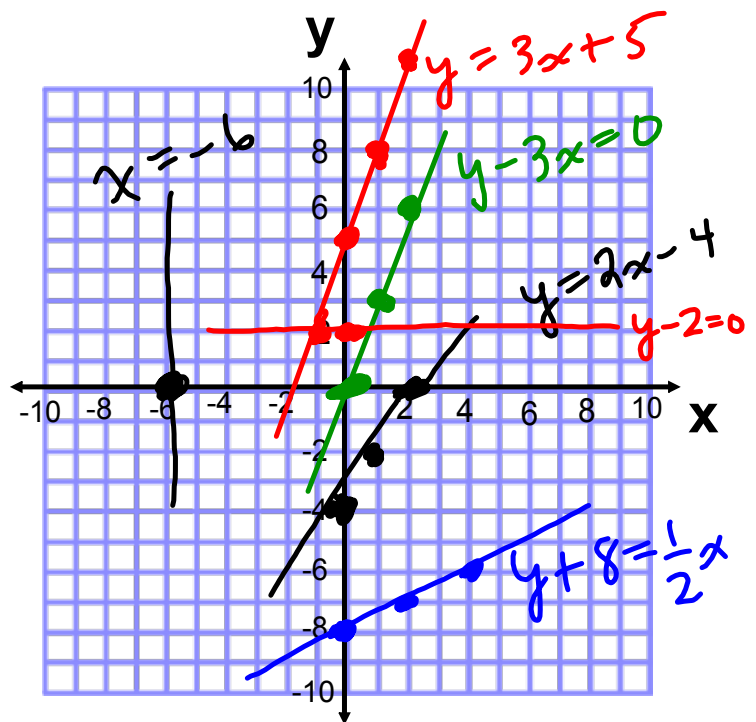
$$y + 8 = \frac{1x}{2}$$

$$y = \frac{1}{2}x - 8$$

$$x = -6$$

$$y - 2 = 0 \quad \text{H}$$

$$y = 2$$

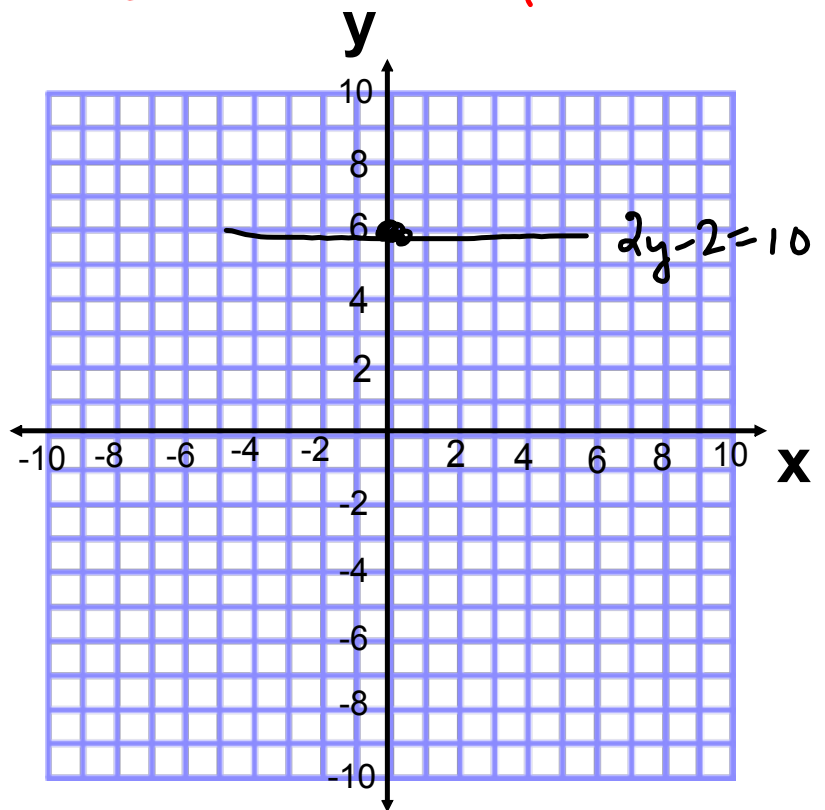


HOMEWORK QUESTIONS?
(page 179, #8, #11, #12 AND #13a)

d

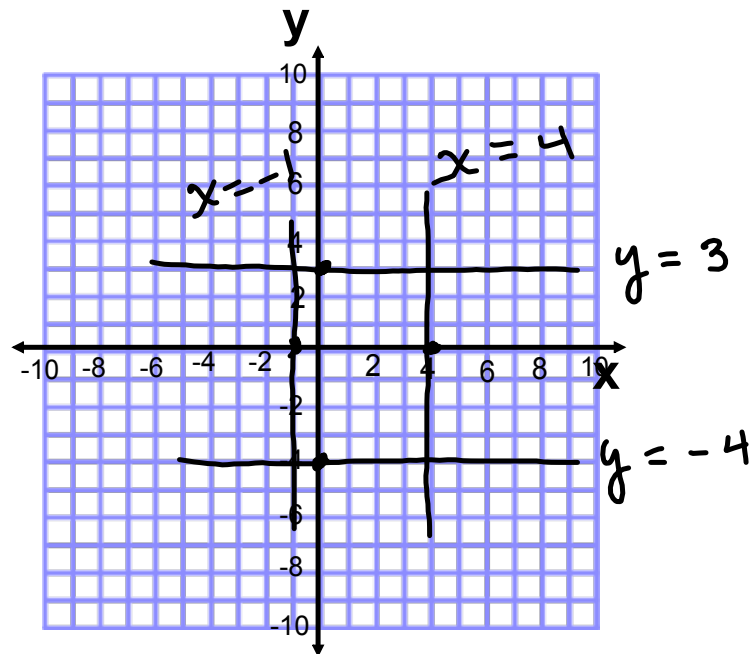
iv

11. d) $2y - 2 = 10$
 $2y = 12$
 $y = 6$



HOMEWORK QUESTIONS?
(page 179, #8, #11, #12 AND #13a)

12.



HOMWORK QUESTIONS?

(page 179, #8, #11, #12 AND #13a)

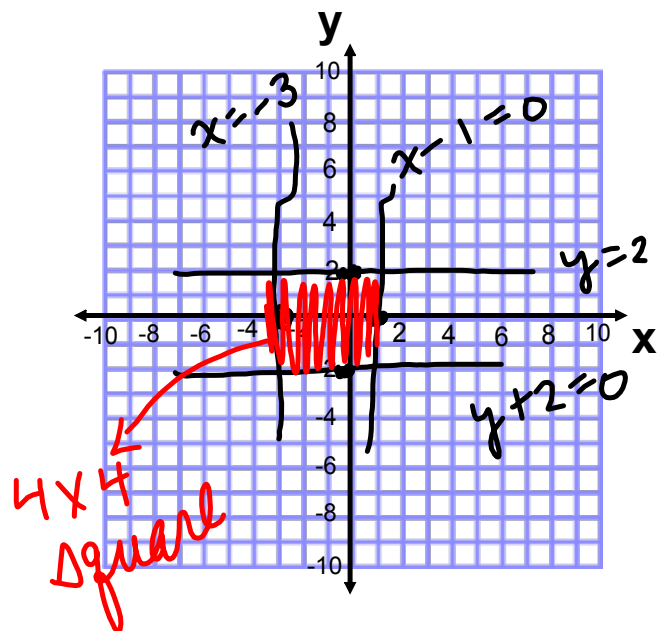
13. a)

i) $x = -3$

ii) $y = 2$

iii) $x - 1 = 0$
 $x = 1$

iv) $y + 2 = 0$
 $y = -2$



Suggested practice for the MID-UNIT QUIZ:

MMS9:

PAGE 181: ALL! (#1 to #7)