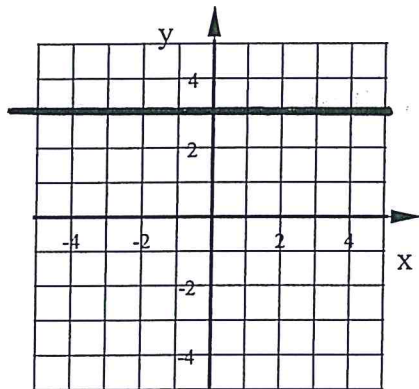# Algebra 1   Bellwork   Tuesday, January 19, 2016

For 1-6, write the equation of each line.
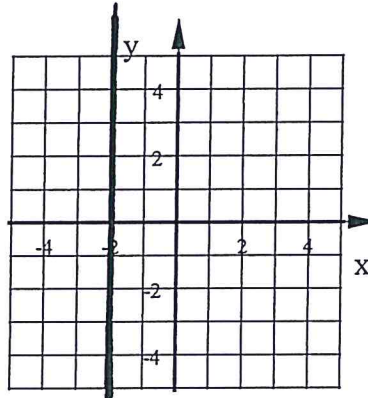
1. The line has a slope of zero and passes through the point $(9,-7)$

2. The line passes through the points $(2,-4) \& (1,-4)$

3. The line in the graph below:

4. The line in the graph below:

5. The line passes through the points $(11,-8) \& (11,3)$

6. The line has an undefined slope and passes through $(1,2)$

For 7 and 8, find the the x and y intercepts of each equation. Give answer as a reduced fraction if you must round the decimal or it is repeating..

7. $10x - 8y = 40$ 8. $9x + 12y = 16$

x-int=   x-int=

y-int=   y-int=

9. Write this equation in Slope-Intercept Form: $-15x - 20y = 40$
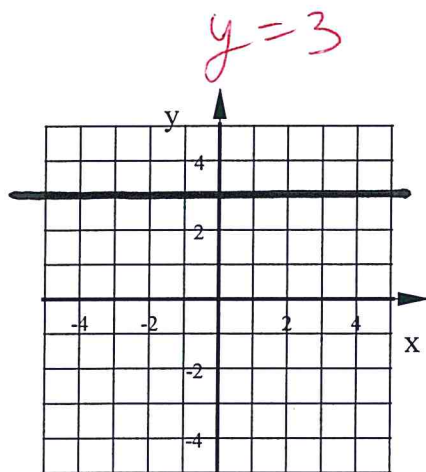
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For 1-6, write the equation of each line.

1. The line has a slope of zero and passes through the point $(9, -7)$
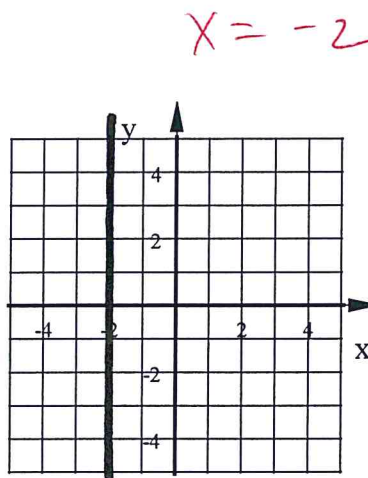
$$y = -7$$

2. The line passes through the points $(2, -4) \& (1, -4)$

$$y = -4$$

3. The line in the graph below:

$$y = 3$$

4. The line in the graph below:

$$x = -2$$

5. The line passes through the points $(11, -8) \& (11, 3)$

$$x = 11$$

6. The line has an undefined slope and passes through $(1, 2)$

$$x = 1$$

For 7 and 8, find the the x and y intercepts of each equation. Give answer as a reduced fraction if you must round the decimal or it is repeating..

7. $10x - 8y = 40$

x-int= $\frac{40}{10} = \boxed{4}$

y-int= $\frac{40}{-8} = \boxed{-5}$

8. $9x + 12y = 16$

x-int= $\boxed{\frac{16}{9}}$

y-int= $\frac{16}{12} = \boxed{\frac{4}{3}}$

9. Write this equation in Slope-Intercept Form: $-15x - 20y = 40$

$$+15x \qquad\qquad +15y$$

$$\boxed{y = -\frac{3}{4}x - 2}$$

$$\frac{-20y}{-20} = \frac{40 + 15x}{-20}$$

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