

Adult High School – Registration Assessment #2 – Sample Questions

(Note: calculators are not needed)

1.) $5x - 2y + 3x =$ _____

2.) $7w - (3x - 8) =$ _____

3.) $8xy - 5yx =$ _____

4.) $4(2n + 5) =$ _____

5.) $-3(4n - 1) =$ _____

6.) $15x - 18xy =$ _____ (_____)

7.) $(3a^2b^3)(2a^5b) =$ _____

8.) $18x^7 \div 2x^3 =$ _____

9.) $(5a^7b^2)^2 =$ _____

10.) $7y + 10 = 31$ $y =$ _____

11.) $3(m + 2) = 21 - 2m$
 $m =$ _____

12.) $\frac{w}{3} - \frac{w}{8} = -\frac{1}{24}$ $w =$ _____

13.) $(p + q)^2 =$ _____

14.) $(x + 3y)^2 =$ _____

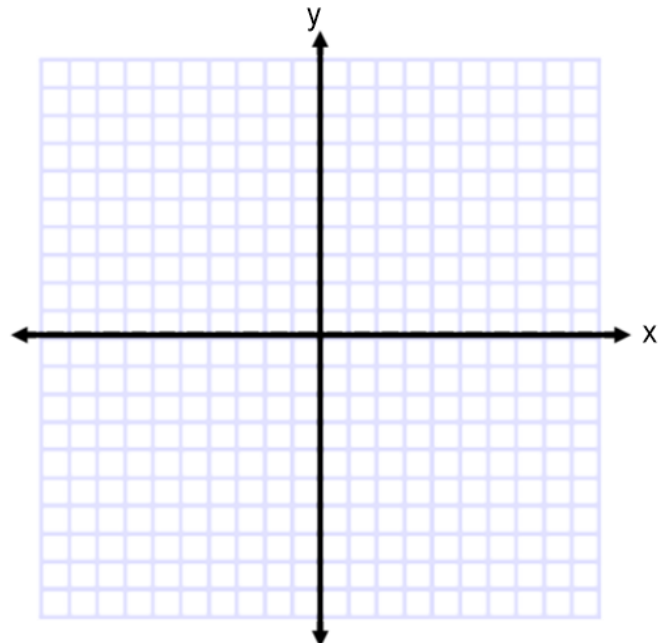
15.) $(a - 3)(a + 5) =$ _____

16.) $(y - 4)(y + 4) =$ _____

17.) $x^2 - 9 = (\text{_____})(\text{_____})$

18.) Plot the table of points on the grid:

x	y
-2	-7
0	-3
1	-1
4	5

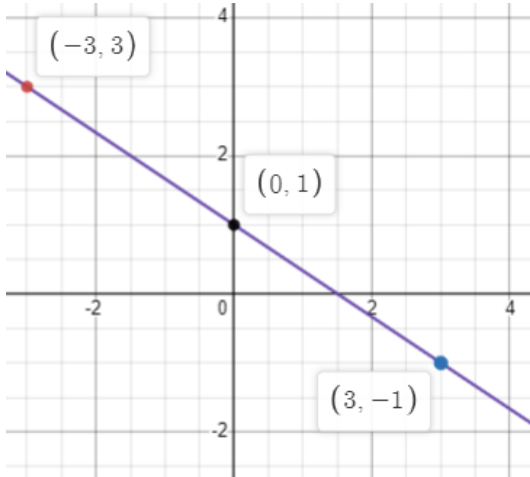


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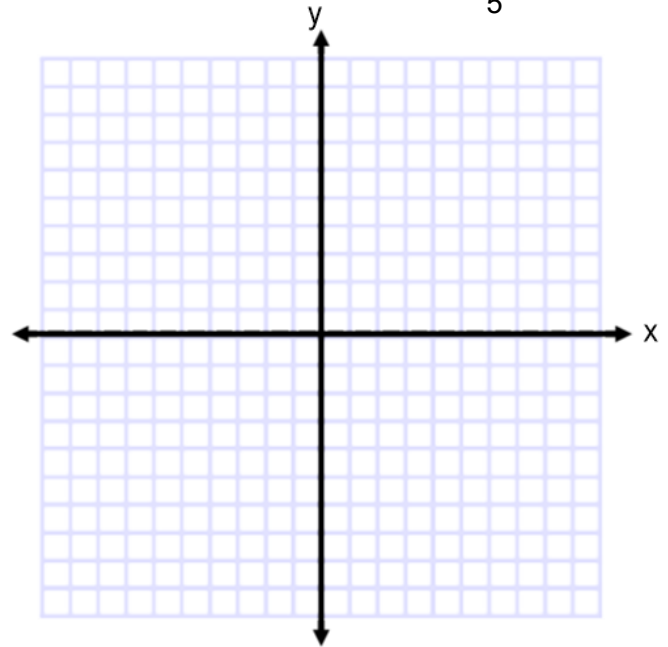
19.) For the line shown below,

slope (m) = _____

equation is: _____



20.) Sketch a line with equation $y = \frac{2}{5}x + 3$
It has y-intercept (b) = 2 and slope (m) = $\frac{2}{5}$



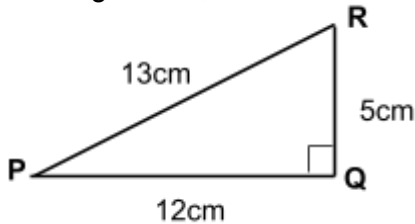
23.) Graph these equations: a) $y = 7$

b) $x = -4$

c) $2x + 3y = 12$

d) $5x - 4y = 10$

22.) For triangle PQR,



$\sin P =$ _____

$\sin R =$ _____

$\cos P =$ _____

$\cos R =$ _____

$\tan P =$ _____

$\tan R =$ _____

23.) The quadratic equation $y = x^2 - 4$
will have a parabola graph with:

a) y-intercept at $y =$ _____

b) x-intercepts at $x =$ _____
and at $x =$ _____

24.) Solve for x.

a) $x^2 + 7x + 10 = 0.$

b) $x^2 - 10x + 16 = 0.$

c) $x^2 + 4x - 12 = 0.$

d) $10x^2 + 13x - 3 = 0.$

25.) Equation for this graph. $y =$ _____

