

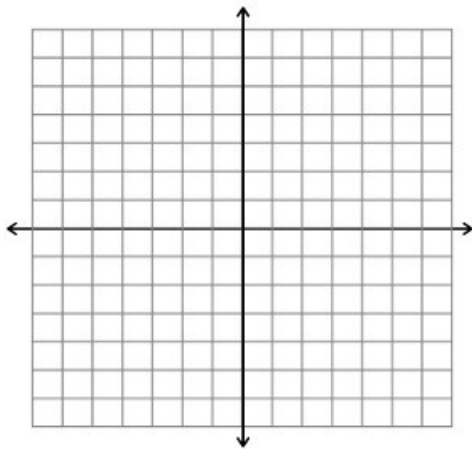
Honors Geometry Summer Review

The following questions are review of basic Algebra 1 concepts that are an essential foundation to success in Geometry. When solving the problem, **show your work!** Answers alone will not receive full credit. Search the content of the problem online if help is needed. Make sure you answer all parts.

This assignment is due the 2nd day of class and will be **graded for accuracy and used as your first quiz.**

1. Solve: $4x - 8 = 32$

2. Write the equation, AND graph the line with slope = $-4/3$ and y-intercept 5.

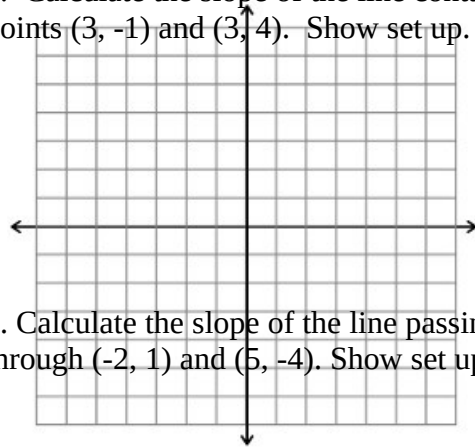


3. Given: $-2x + y = -4$.

Slope: _____ y-intercept: _____

Draw the graph.

4. Calculate the slope of the line containing the points $(3, -1)$ and $(3, 4)$. Show set up.



5. Calculate the slope of the line passing through $(-2, 1)$ and $(5, -4)$. Show set up.

6. What is the perimeter of a rectangle with a width of 5 yards and a length of 8 yards.

7. Solve: $4a + 5 = 2a - 7$.

8. Solve $5(x - 3) + 2 = 5(2x - 8) - 3$

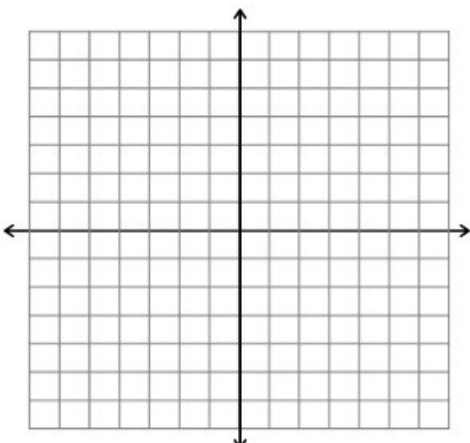
9. Solve $2(x + 3) = 10$

10. Solve $5x - 8x + 3 = 4 - 10$

11. Solve using the square root method.

a) $2x^2 - 1 = 71$

12. Graph $y = \frac{-1}{3}x + 2$



13. Given a segment whose endpoints are (4,-5) and (-3,8) find the: (show work)

a) distance

b) midpoint

14. Solve by factoring,

$$0 = x^2 + 2x - 24$$

15. Evaluate: $3w - 6$ when $w = -5$.

16. Given the line $y = 3x - 4$,

a) what is the slope of the line parallel to this line?

b) what is the slope of the line perpendicular to this line?