

Name _____ Hour _____ Date _____

Algebra I Point-Slope Form Worksheet

Give an equation in point-slope form that satisfies the given information.

1. Passes through (2, 3) and has slope of $-\frac{1}{2}$.
2. Passes through (-1, 4) and $m = 4$.
3. Passes through (0, 2) and has slope of $-5/3$.
4. Passes through (4, -2) and $m = 0$.
5. Passes through (-4, 6) and (-2, 5)
6. Passes through (-1, -7) and (1, 3)

Give the slope of each of the following lines. Name a point on each line.

7. $y + 2 = \frac{2}{3}(x - 4)$

8. $y - 3 = \frac{1}{2}(x - 3)$

9. $y + 5 = \frac{1}{4}(x + 2)$

10. $Y = 2(x + 3)$

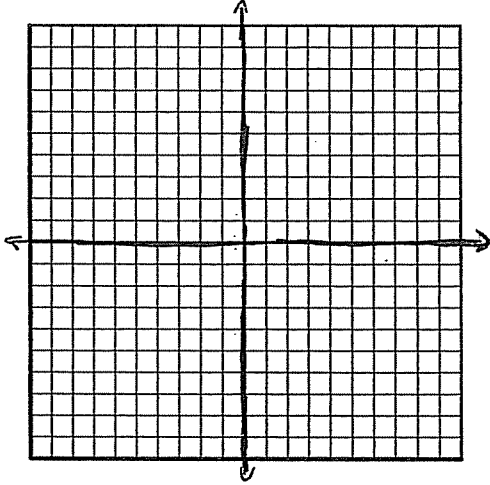
11. $y - 8 = -3(x + 1)$

12. $Y + 3 = -1/5 x$

Graph each of the following lines by first giving the point and the slope.

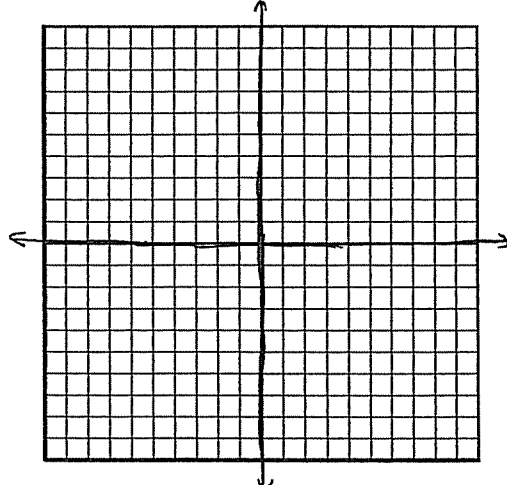
13. $y + 2 = \frac{1}{3}(x + 1)$

Point _____ Slope _____



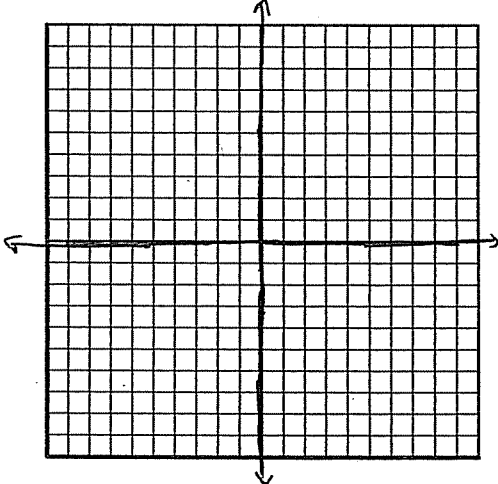
14. $y + 1 = -\frac{1}{2}(x - 3)$

Point _____ Slope _____



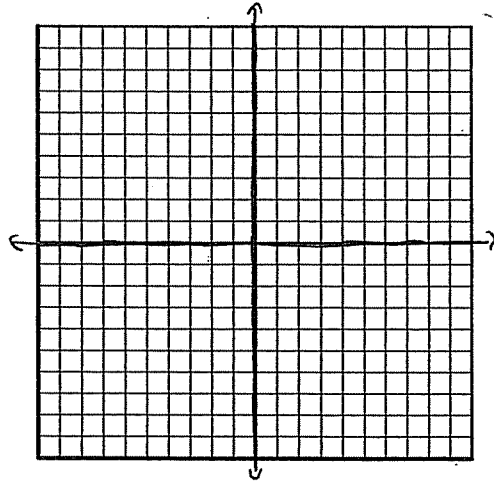
15. $y - 3 = -2(x - 4)$

Point _____ Slope _____



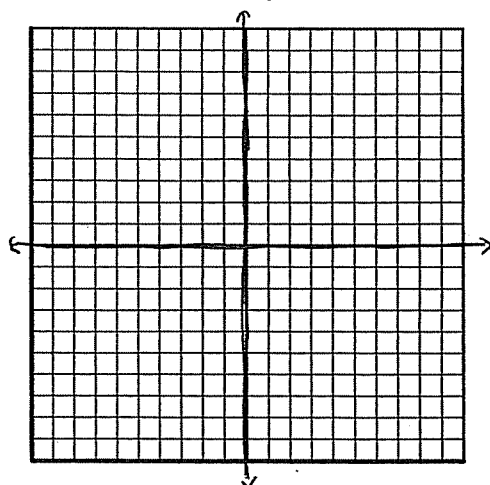
16. $y - 5 = 3x$

Point _____ Slope _____



17. $y + 3 = 0(x - 3)$

Point _____ Slope _____



18. $y - 1 = -\frac{5}{2}(x + 2)$

Point _____ Slope _____

