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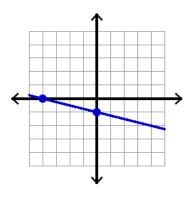
Unit 4 – Linear Functions Review

1. Determine the slope of a line passing through the following points and tell whether the slope is positive, negative, zero or undefined.

a.
$$P(3, -2)$$
 and $Q(-1, 6)$

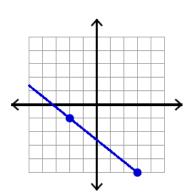
b.
$$R(2, 4)$$
 and $S(2, -1)$

- 1. Given the graph write the equation of the line in:
 - a) Slope point form



b) Slope intercept form

- 2. Given the graph write the equation of the line in:
 - a) Slope point form

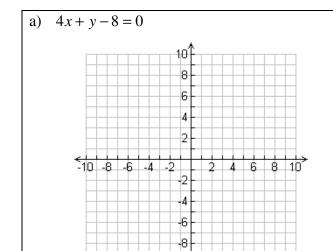


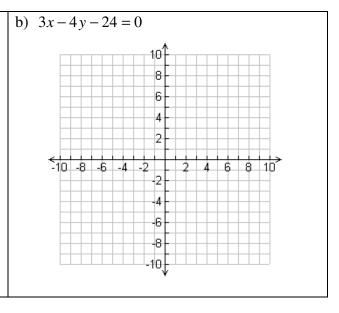
b) Slope intercept form

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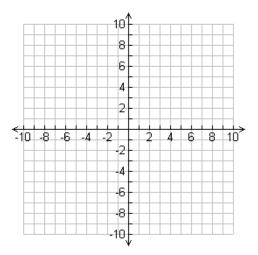
- 3. Write an equation for the line that passes through A(4,3) and is parallel to the line $y = \frac{1}{2}x + 2$.
 - a) Slope point form

- b) Slope intercept form
- 4. Write an equation for the line that passes through A(-4,1) and is perpendicular to the line $y = \frac{2}{3}x + 6$
 - a) Slope point form
 - b) Slope intercept form
- 5. Graph the lines.





6. Two **perpendicular** lines intersect on the y-axis. One line has equation: $y - 4 = \frac{2}{3}(x + 6)$. What is the equation of the other line in Slope-Point Form?



General Form: Ax + By + C = 0

- 7. Write: $y = \frac{-2}{5}x + 2$ in General Form.
- 8. Write: $y 5 = \frac{2}{5}(x 7)$ in General Form.

9. Determine the x-intercept and the y-intercept of the line whose equation is: 6x - 4y - 3 = 0

x-intercept: ______ y-intercept:_____

10. Determine the slope of a line with equation: 2x - 4y + 10 = 0