

A9

Show all work on your own paper.

Use slope-intercept form to write the equation of the line, based on given information.

1. slope = 8, y-intercept = -5
2. y-intercept = 3, parallel to the line $y = \frac{3}{4}x + 9$
3. slope = -5, point on line (-4, 3)
4. points on line (-2, 6) and (2, 4)

Use point-slope form to write the equation of a line, based on the given information.

Give your final answer in slope-intercept form.

5. slope = -3, point on line (5, 6)
6. slope = $\frac{4}{3}$, point on line (9, -7)
7. point on line (-12, -4), perpendicular to $y = -6x + 2$
8. points on line (9, 0) and (7, 8)

Review: Graph in the coordinate plane.

9. $2x - 7y < -14$

10.
$$\begin{aligned} 3x + 6y &\leq 12 \\ x &\geq -5 \end{aligned}$$

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