Review: Writing Linear Equations in Standard Form

Write an equation of a line in Slope-Intercept & Standard Form. Note: each line passes through the given point/points.

1) $m = \frac{1}{2}$; $(6,4)$

2) $(6,1)$ & $(8,-4)$

3) $(-3,2)$ & $(-5,7)$

4) x-int $= -2$; y-int $= -4$

5) $\perp$ to $y = 4x - 1$; $(8,3)$

6) $\parallel$ to $y = 6x - 4$; $(-3,-5)$

7) $\parallel$ to $x + y = 3$; $(-3,2)$

8) $\perp$ to $3x - 5y = 9$; $(6,-1)$

Answers:

1) $y = \frac{1}{2}x + 1$; $x - 2y = -2$

2) $y = -\frac{5}{2}x + 16$; $5x + 2y = 32$

3) $y = -\frac{5}{2}x - \frac{11}{2}$; $5x + 2y = -11$

4) $y = -2x - 4$; $2x + y = -4$

5) $y = -\frac{1}{4}x + 5$; $x + 4y = 20$

6) $y = 6x + 13$; $6x - y = -13$

7) $y = -x - 1$; $x + y = 1$

8) $y = -\frac{5}{3}x + 9$; $5x + 3y = 27$