

Ex4 Write an equation of a line with a
slope of 6 that passes through (3, 4).

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Ex5 Write an equation of a line with a
slope of -4 that passes through (-2, 5).
M
PSF)
$$\gamma - \gamma_{1} = m(x - x)$$

 $\gamma - 5 = -4(x + 2)$
 $\gamma - 5 = -4x - 8$
 $+5$
 $\gamma = -4x - 3$ ST
 $\frac{+4x}{4x + \gamma} = -3$ SF

Ex6 Write an equation of a line with a
slope of -1/2 that passes through (8, -3).
M

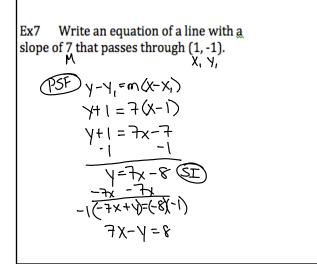
PSF

$$y - y_1 = M(X - X_1)$$

 $y + 3 = -\frac{1}{2}(X - 8)$
 $y + 3 = -\frac{1}{2}X + 4$
 -3
 $y = -\frac{1}{2}X + 4$
 $\frac{1}{2}X + \frac{1}{2}X}$
 $2(\frac{1}{2}X + y) = (1)2$
 $\chi + 2y = 2$
SF

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Ex8 Write an equation of a line that passes
through the points (-2, 13) and (1, -11).

$$X_1 Y_1 \qquad X_2 Y_2$$

 $M = \frac{Y_2 - Y_1}{X_2 - X_1} = -\frac{11 - 13}{1 - 2} = -\frac{24}{3} = -8$
PSF $Y - Y_1 = m(x - X_1)$
 $Y - 13 = -8(X + 2)$
 $\frac{Y - 13 = -8(X + 2)}{Y - 3 = -8X - 16}$
 $\frac{Y - 13 = -8X - 16}{Y - 8X - 3}$
 $\frac{18x + 8x}{8x + Y = -3}$

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Ex9 Write an equation of a line that
passes through the points (-4, 7) and
(8, 4).
$$\frac{1}{2}$$
, $\frac{1}{2}$, $\frac{1$

Ex10 Write an equation of a line that
passes through the points (-1, -8) and (2, 13).
$$M = \frac{Y_2 - Y_1}{X_2 - X_1} = \frac{13 - 8}{2 - -1} = \frac{21}{3} = 7$$

(PSF) $Y - Y_1 = M(X - X_1)$
 $Y + 8 = 7 - (X + 1)$
 $Y + 8 = 7 + 7$
 $Y = 7x - 1 - (SI)$
 $-7x - 7x$
 $- \sqrt{-7x + 4y} = (-1)(-1)$
 $7x - Y = 1 - (SF)$