

$m = -2$ $(5, 6)$

Write an equation of a line in standard form

$y - 6 = -2(x - 5)$

$y - 6 = -2x + 10$

$y = -2x + 16$

$2x + y = 16$ $\frac{-9}{6} = \frac{-3}{2}$

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$y = mx + b$

$y = \frac{4}{3}x - 4$

$(0, -4)$ $(3, 0)$

$m = \frac{0 - (-4)}{3 - 0} = \frac{4}{3}$

$y - 0 = \frac{4}{3}(x - 3)$

$y = \frac{4}{3}x - 4$

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$y = mx + b$

$y = \frac{1}{5}x - 2$

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7 $y = \frac{3}{2}x - \frac{3}{2}$

8 $y = -\frac{1}{3}x - \frac{8}{3}$

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$y = mx + b$

$y = \frac{3}{2}x - \frac{3}{2}$

$(5, 6)$

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$m = \frac{(-3+1)}{1+5} = \frac{-2}{6} = -\frac{1}{3}$

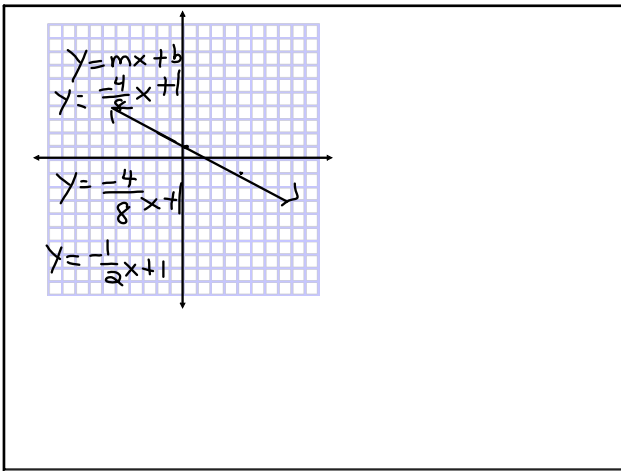
$2\frac{2}{3} = \frac{8}{3}$

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

$y + 3 = -\frac{1}{3} + \frac{1}{3}$

$y = -\frac{1}{3} - \frac{8}{3}$

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$$m = \frac{2}{3} \quad b = \frac{1}{8}$$

$$y = \frac{2}{3}x + \frac{1}{8}$$

$$y = -\frac{5}{2}x$$

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16) $P(-1, 0)$
 $m = -1$
 $y - 0 = -1(x + 1)$
 $y = -x - 1$
 $y = -x - 1$

$y = mx + b$
 $0 = -1(-1) + b$
 $0 = 1 + b$
 $-1 = b$
 $y = -x - 1$

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17) $P(5, 4) \quad m = 4$
 $y - 4 = 4(x - 5)$
 $y - 4 = 4x - 20$
 $y = 4x - 16$

18) $(6, -2) \quad m = 3$
 $y + a = 3(x - b)$
 $y + 2 = 3x - 18$
 $y = 3x - 20$

$y = mx + b$
 $-2 = 3(6) + b$
 $-2 = 18 + b$
 $-20 = 18 + b$
 $-20 = b$

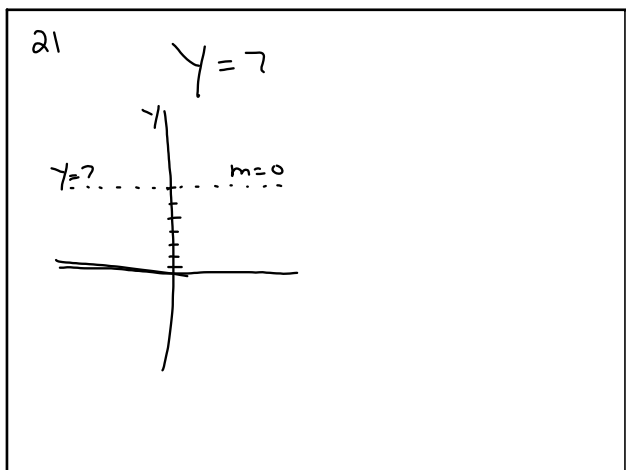
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19) $P(-8, -2)$
 $m = -\frac{2}{3}$
 $y + 2 = -\frac{2}{3}(x + 8)$
 $y + 2 = -\frac{2}{3}x - \frac{16}{3}$
 $-2 \quad -\frac{2}{3} = -\frac{6}{3}$
 $y = -\frac{2}{3}x - \frac{22}{3}$

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20) $P(0, -3) \quad m = -\frac{1}{6}$
 $y = -\frac{1}{6}x - 3$
 $y + 3 = -\frac{1}{6}(x - 0)$
 $y + 3 = -\frac{1}{6}x$
 $y = -\frac{1}{6}x - 3$

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