

9)Use the two points to find the equation of the line. (-5, 13)(3, -3) in slope intercept form.

$$\frac{\zeta(0n^{2} - \frac{3}{3} - \frac{13}{5})}{\gamma_{2} - (-5)} = \frac{-16}{10} = -2$$

$$\frac{-2}{3} = (-2)(3) + \frac{16}{5} = -3 = -64$$

$$\frac{-3}{5} - \frac{-3}{5} = (-2)(3) + \frac{16}{5} = -3 = -64$$

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y = 3 2+7

10) Find the equation of the line parallel to y = 3x - 2, passing through (-2, 1).

11) Find the equation of the line perpendicular to y = 2x - 1, passing through (4, 5).

 $y = 0.2 \times 4$ $y = 0.2 \times 4$ $(4 \times 4 \circ)$ $4 \circ = 0.2 (14) + b$ $4 \circ = 0.2 \times 4$ 5×5 $4 \circ = 0.2 \times 4$ 12) Julio plans a diet to gain 0.2 kg a day. After 14 days he weighs 40 kg. The number of days he diets and his weight are related.

Identify the variables in this situation: $x = \frac{1}{2} \frac{1}{2$ y= weight

What is the given information in this problem (find all that apply)? y-intercept 27.2 slope 0.2 one point (14, 40)

a. Write an equation relating Julio's weight, w, to the number of days, d, on his diet.

$$W = 0.2 \ d + 37.2$$

lio to reach his goal weight of 50 kg?
$$\zeta 0 = 0.2 \ d + 37.2 \\ \zeta 0 = 0.2 \ d + 37.2 \\ -37.7 = 0.2 \ d = 0.2 \\ 2.0 = 0.2 \\ -37.7 = 0.2 \\ 2 = 0.2 \end{bmatrix} = 0.2 \ d = 0.2 \\ -37.7 = 0.2$$

b. How long will it take Julio to reach his goal weight of 50 kg?