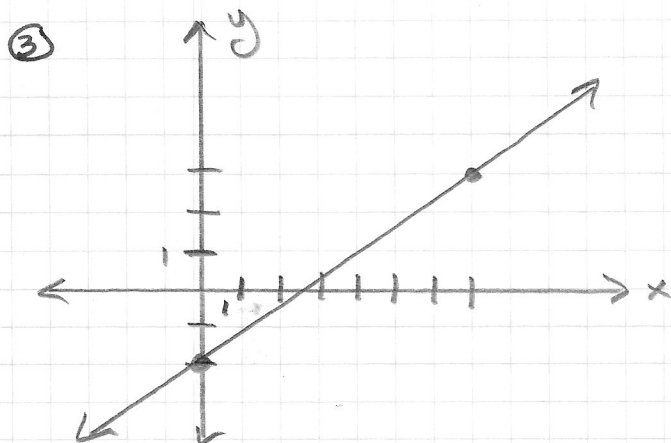


Slope - Intercept Form ($y = mx + b$)

State the slope (m) & y-int. (b) of each graph.

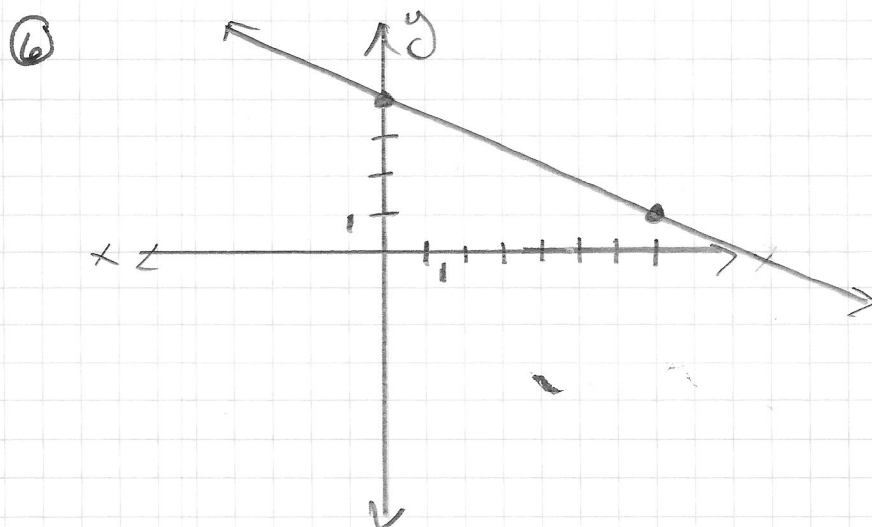
① $y = \frac{1}{2}x + 5$ ② $3x - 6y = 6$



Write the equation of the line in Slope - Intercept Form

④ slope of 3; y-int. of 5

⑤ $m = \frac{1}{3}$; passes through $(0, -2)$



(next page)

Graph each Linear Equation using the Slope & y-int.

⑦ $y = 4x - 2$

⑧ $y = -\frac{3}{4}x + 1$

Application

⑨ a car rental fee (y) can be determined by the eq. $y = .4x + 20$ where x is the number of miles driven.

a) what does the slope represent?

b) what does the y-int represent?

Answers:

① $m = \frac{1}{2}, b = 5$

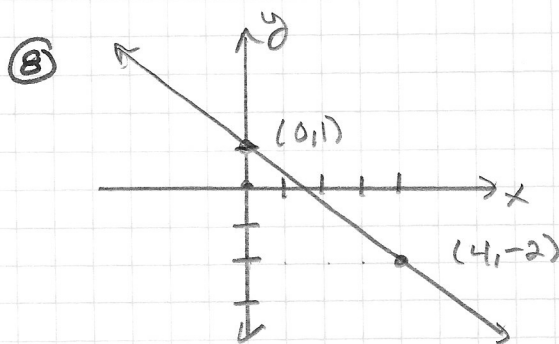
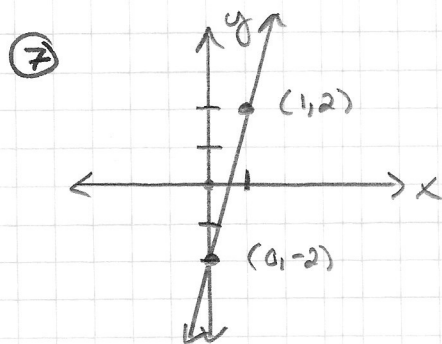
② $m = \frac{1}{2}, b = -1$

③ $m = \frac{5}{7}, b = -2$

④ $y = 3x + 5$

⑤ $y = \frac{1}{3}x - 2$

⑥ $y = -\frac{3}{7}x + 4$



⑨ a) \$0.40 per mile driven

b) initial fee of \$20.00 to rent the car