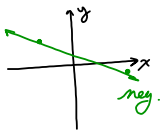


October 18, 2017

#1) $(-5, 4)$ & $(8, -2)$



$$m = \frac{(-2) - (4)}{(8) - (-5)} = \frac{-6}{13} = -\frac{6}{13}$$

#2) $2x - 3y = 18$

$$\frac{-3y}{-3} = \frac{-2x + 18}{-3}$$

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

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

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#3) $(-5, 6)$; $m = -\frac{3}{5}$

$$b = -\frac{3}{5}\left(-\frac{5}{1}\right) + b$$

$$6 = 3 + b \Rightarrow (y = -\frac{3}{5}x + 3)$$

$$3 = b$$

$$5y = -3x + 15$$

$$3x + 5y = 15$$

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#4) $y = -\frac{7}{4}x + \frac{2}{3}$

$$12y = -21x + 8$$

$$21x + 12y = 8$$

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Do 5.1 CORE

- 1st read & work out examples
- Practice problems

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Junctions

Input	"f"	output
2	$\frac{2}{3}x - 6$	$-\frac{14}{3}$
7		$-\frac{4}{3}$
3		-4
6		-2
9		0

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$(\frac{1}{2}, -\frac{3}{4})$ & $(6, -\frac{1}{5})$

$$m = \frac{(-\frac{1}{5}) - (-\frac{3}{4})}{(\frac{6}{1}) - (\frac{1}{2})}$$

$$= \frac{-4 + 15}{12 - 1} = \frac{11}{11} = 1$$

$$= \frac{11}{11} = 1$$

$$= \frac{1}{10} \cdot \frac{1}{1}$$

$$= \frac{1}{10}$$

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