

Written Homework Section 3.1

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Name: _____

Due: _____

In Problems 13–20, a linear function is given.

- (a) Determine the slope and y-intercept of each function.
- (b) Use the slope and y-intercept to graph the linear function.
- (c) Determine the average rate of change of each function.

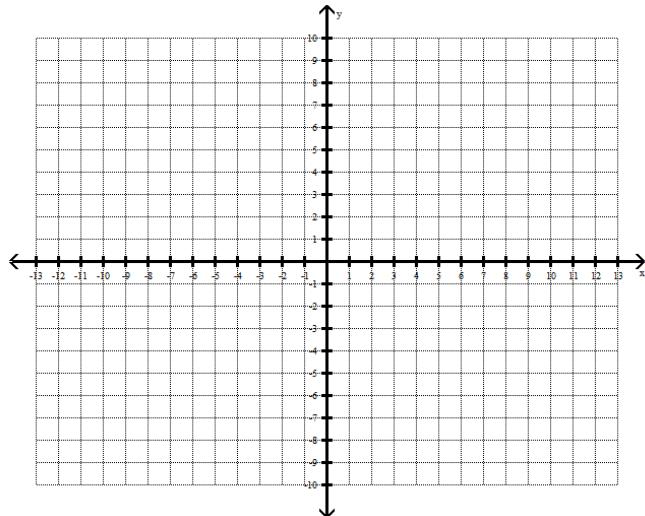
(b.)

18. $h(x) = -\frac{2}{3}x + 4$

Answer(a): Slope=

Answer(a): y-intercept=

Answer(c): Average Rate of Change=



30. Suppose that $f(x) = 3x + 5$ and $g(x) = -2x + 15$.

- (a) Solve $f(x) = 0$.
- (b) Solve $f(x) < 0$.
- (c) Solve $f(x) = g(x)$.
- (d) Solve $f(x) \geq g(x)$.
- (e) Graph $y = f(x)$ and $y = g(x)$ and label the point that represents the solution to the equation $f(x) = g(x)$.

Answer(a): _____

Answer(b): _____

Answer(c): _____

Answer(d): _____

