Name:

Date: _____

Learning Goal 4.1	The Mean Value Theorem and L'Hospital's Rule
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More Questions

- 1. Suppose that we know f(x) is continuous and differentiable on [6, 15]. Let's also suppose that we know f(6) = -2 and $f'(x) \le 10$. What is the largest possible value for f(15)?
- 2. A car travels 180 km in 2 hours. Its speedometer must have read how fast at least once?
- 3. Suppose that f is a differentiable function such that $f'(x) \le 2$ for all x. What is the largest possible value of f(7) if f(3) = 5?
- 4. Let $f(x) = x^2$. Find a value $c \in (-1, 2)$ so that f'(c) equals the slope between the endpoints of f(x) on [-1, 2].