Course: AP	Calculus BC	l Ouiz: 21	Instructor: D. Shubleka —
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Name	No calculators.	Present neatly. Score	
1)		_	

Find an equation of the line through the point (3,5) that cuts off the least area from the first quadrant.

2) Discuss completely. Your analysis should conclude with a sketch that is consistent with your discussion.

$$y = \frac{x^2}{x^2 + 3}$$

Your work:

	0 1 1 50	10 1 01 17	D 01 11 1
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1)	

What is the shortest possible length of the line segment that is cut off by the first quadrant and is tangent to the curve y = 3/x at some point?

2) Discuss completely. Your analysis should conclude with a sketch that is consistent with your discussion.

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

Your work: