MATH 141: QUIZ 4 SECTIONS 2.6 AND 3.1

ANN CLIFTON UNIVERSITY OF SOUTH CAROLINA

Name and Section:		
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No phone or calculator. You must show all work to receive full credit. Simplify your coefficients when applicable.

1. (2 points each) Find the following limits.

(a)
$$\lim_{x\to 8^+} \frac{2x}{8-x}$$

(b)
$$\lim_{x \to \infty} \frac{9x^4 + x}{2x^4 + 5x^2 - x + 6}$$

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2. **(6 points)** Find an equation for the tangent to the curve at the given point using the limit definition.

$$y = 2\sqrt{x} \quad \text{at} \quad (1,2)$$