

Math 1260 Quiz #10 - June 14, 2006

1. Determine:

$$\lim_{x \rightarrow 2} (x^2 + 3x + 5)$$

Answer: 15 (function is continuous, just plug in 2)

2. Determine:

$$\lim_{x \rightarrow 3} \frac{x^2 - 9}{x - 3}$$

Answer: 6 (Cancel $x - 3$ from top and bottom)

3. Determine:

$$\lim_{x \rightarrow \infty} \frac{3x^3 + 5x + 7}{2x^3 + 2x^2 - 9}$$

Answer: 3/2 (divide everything by x^2)