

Math 151, Quiz # 4, September 24, 2013

1. Evaluate $\lim_{x \rightarrow 3} \frac{x^2 + 2x - 15}{x^2 - 7x + 12}$

2. Recall that $\lim_{x \rightarrow 0} \frac{\sin(x)}{x} = 1$. Evaluate the following limits:

a) $\lim_{x \rightarrow 0} \frac{x}{\sin x}$

b) $\lim_{x \rightarrow 0} \frac{\sin 5x}{2x}$

c) $\lim_{x \rightarrow 0} \frac{\sin x}{x^2}$