

MATH 135: Quiz 10

November 11, 2014

Name: _____ Sec: _____

1. Compute the following limits.

(a)

$$\lim_{x \rightarrow 3} \frac{x^3 - 27}{x^2 + x - 6}$$

(b)

$$\lim_{x \rightarrow \pi} \frac{\sin x}{\pi^2 - x^2}$$

2. A farmer has 170 feet of fencing with which to enclose a pen for his sheep. He wants to build the pen adjacent to a 30 ft long barn, and will not need to put fencing against the barn. What is the area of the largest pen he can build?

