

QUIZ 1

Name _____

1. Find the following limits.

(a) $\lim_{x \rightarrow 5} \frac{x^2 - 3x - 10}{x - 5}$.

(b) $\lim_{x \rightarrow \infty} \frac{x^2 + 2x - 5}{3x^2 + 2}$.

2. A company training program has determined that, on the average, a new employee can do $P(s)$ pieces of work per day after s days of on-the-job training, where

$$P(s) = \frac{75s}{s + 8}.$$

Find and interpret $\lim_{x \rightarrow \infty} P(s)$.