

1. Find the limit L . Then find $\delta > 0 \Rightarrow |f(x) - L| < 0.01$ whenever $0 < |x - c| < \delta$.

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

2. Find the limit L . Then find $\delta > 0 \Rightarrow |f(x) - L| < 0.01$ whenever $0 < |x - c| < \delta$.

$$\lim_{x \rightarrow 8} \left(8 - \frac{x}{4}\right)$$

3. Find the limit L . Then find $\delta > 0 \Rightarrow |f(x) - L| < 0.01$ whenever $0 < |x - c| < \delta$.

$$\lim_{x \rightarrow 3} (x^2 - 7)$$

4. Find the limit L . Then find $\delta > 0 \Rightarrow |f(x) - L| < 0.01$ whenever $0 < |x - c| < \delta$.

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

5. Find the limit L . Then use the $\varepsilon - \delta$ definition to prove that the limit is L .

$$\lim_{x \rightarrow 6} (x - 2)$$

6. Find the limit L . Then use the $\varepsilon - \delta$ definition to prove that the limit is L .

$$\lim_{x \rightarrow -2} (5x + 8)$$

7. Find the limit L . Then use the $\varepsilon - \delta$ definition to prove that the limit is L .

$$\lim_{x \rightarrow -6} \left(\frac{1}{2}x + 1\right)$$

8. Find the limit L . Then use the $\varepsilon - \delta$ definition to prove that the limit is L .

$$\lim_{x \rightarrow 1} \left(\frac{2}{3}x + 3\right)$$

9. Find the limit L . Then use the $\varepsilon - \delta$ definition to prove that the limit is L .

$$\lim_{x \rightarrow 7} 2$$

10. Find the limit L . Then find $\delta > 0 \Rightarrow |f(x) - L| < 0.01$ whenever $0 < |x - c| < \delta$.

$$\lim_{x \rightarrow 5} |x - 5|$$