1. $\displaystyle\lim_{x \to 0} \frac{x^2 - 4x + 3}{3x^2 + 12x - 15} =$

2. $\displaystyle\lim_{x \to 1} \frac{x^2 - 4x + 3}{3x^2 + 12x - 15} =$

3. $\displaystyle\lim_{x \to -5^+} \frac{x^2 - 4x + 3}{3x^2 + 12x - 15} =$

4. $\displaystyle\lim_{x \to \infty} \frac{x^2 - 4x + 3}{3x^2 + 12x - 15} =$

5. $\displaystyle\lim_{x \to \infty} \cos\left(\frac{1}{x}\right) =$

1. $\displaystyle\lim_{x \to \infty} \frac{3x^2 + 12x - 15}{x^2 - 4x + 3} = $

2. $\displaystyle\lim_{x \to 0} \frac{3x^2 + 12x - 15}{x^2 - 4x + 3} = $

3. $\displaystyle\lim_{x \to 1} \frac{3x^2 + 12x - 15}{x^2 - 4x + 3} = $

4. $\displaystyle\lim_{x \to 3^+} \frac{3x^2 + 12x - 15}{x^2 - 4x + 3} = $

5. $\displaystyle\lim_{x \to \infty} \ln\left(1 + \frac{1}{x}\right) = $