# Find the limit of each function

1. $\lim_{x\to\infty} \frac{x^2+2x+1}{2x^2-x+1} =$

2. $\lim_{x\to-\infty} \frac{x^2+2x+1}{2x^2-x+1} =$

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

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

# Find the limit of each function

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

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

3. $\lim_{x\to\infty} \frac{-x^2+2x+1}{2x^5-x+1} =$

4. $\lim_{x\to-\infty} \frac{-x^2+2x+1}{2x^6-x+1} =$

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5. $\lim_{x\to-\infty} \frac{-x^5+2x+1}{2x^2-x+1} =$

6. $\lim_{x\to-\infty} \frac{-x^4+2x+1}{2x^2-x+1} =$

Determine the Horizontal Asymptote for each function given below.

1. $f(x) = \dfrac{5x^2 + 2x + 1}{2x^2 - x + 1}$

2. $f(x) = \dfrac{-10x^3 + 2x + 1}{2x^3 - x + 1}$

3. $f(x) = \dfrac{3x^3 + 2x + 1}{2x^5 - x + 1}$

# Determine the end behavior power model for each function

1. $f(x) = \dfrac{5x^2 + 2x + 1}{2x^2 - x + 1}$

2. $f(x) = \dfrac{-10x^3 + 2x + 1}{2x^3 - x + 1}$

3. $f(x) = \dfrac{3x^3 + 2x + 1}{2x^5 - x + 1}$