Find the limit of each function

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

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

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

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

Find the limit of each function

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

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

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

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

Find the limit of each function

1. $\lim\limits_{x \to \infty} \dfrac{x^3 + 2x + 1}{2x^2 - x + 1} =$

2. $\lim\limits_{x \to -\infty} \dfrac{x^3 + 2x + 1}{2x^2 - x + 1} =$

3. $\lim\limits_{x \to \infty} \dfrac{-x^3 + 2x + 1}{2x^2 - x + 1} =$

4. $\lim\limits_{x \to -\infty} \dfrac{-x^3 + 2x + 1}{2x^2 - x + 1} =$

5. $\lim\limits_{x \to -\infty} \dfrac{-x^5 + 2x + 1}{2x^2 - x + 1} =$

6. $\lim\limits_{x \to -\infty} \dfrac{-x^4 + 2x + 1}{2x^2 - x + 1} =$

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

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

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