Evaluating limits when $x \to \infty$.

1. Show $\lim_{x\to\infty} \dfrac{x+2}{x-2} = 1$.

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

3. Show $\lim_{x\to\infty} \dfrac{x^2-7x+11}{3x^2+10} = 1/3$.

4. Show $\lim_{x\to\infty} \dfrac{2x^3-5x+7}{7x^3+2x^2-6} = 2/7$.

5. Show $\lim_{x\to\infty} \dfrac{(3x-1)(4x-5)}{(x+6)(x-3)} = 12$.

6. Show $\lim_{x\to\infty} \dfrac{x}{\sqrt{4x^2+1}-1} = 1/2$.

7. Show $\lim_{x\to-\infty} 2^x = 0$.

8. Show $\lim_{t\to\infty} \dfrac{t+1}{t^2+1} = 0$.

9. Show $\lim_{n\to\infty} \sqrt{n^2+1} - n = 0$.

10. Show $\lim_{n\to\infty} \sqrt{n^2+n} - n = 1/2$.