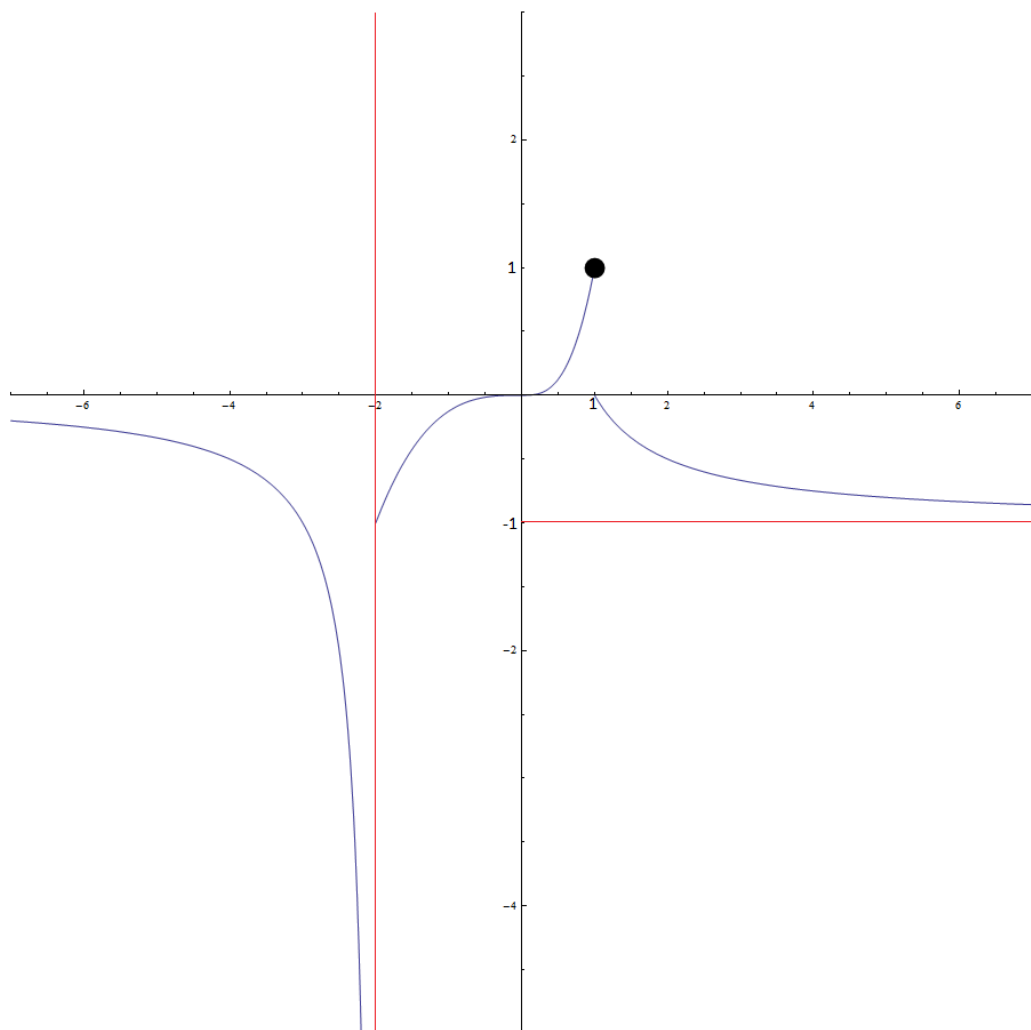


YOUR NAME: _____

George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Based on the depicted graph of the function $y = f(x)$, fill-in the missing values in the following table:



$$\lim_{x \rightarrow -\infty} f(x) =$$

$$\lim_{x \rightarrow -2^-} f(x) =$$

$$\lim_{x \rightarrow 1^-} f(x) =$$

$$\lim_{x \rightarrow +\infty} f(x) =$$

$$\lim_{x \rightarrow -2^+} f(x) =$$

$$\lim_{x \rightarrow 1^+} f(x) =$$

$$\lim_{x \rightarrow -2} f(x) =$$

$$\lim_{x \rightarrow 1} f(x) =$$

2. Evaluate the following limits:

(a) $\lim_{x \rightarrow \frac{1}{2}} \frac{2x^2 + 13x - 7}{-2x^2 + 3x - 1} =$

(b) $\lim_{x \rightarrow 7} \frac{\sqrt{11 - x} - 2}{x - 7} =$