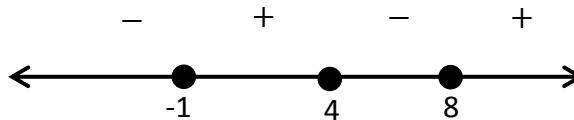


1) Find the limit below.

$$\lim_{x \rightarrow 4} \frac{x - 4}{x^2 - 6x + 8} = \lim_{x \rightarrow 4} \frac{x - 4}{(x - 2)(x - 4)} = \lim_{x \rightarrow 4} \frac{1}{x - 2} = \frac{1}{4 - 2} = \frac{1}{2}$$

2) Find the limit below.

$$\lim_{x \rightarrow 4} \frac{x^2 - 7x - 8}{x - 4} = \lim_{x \rightarrow 4} \frac{(x - 8)(x + 1)}{x - 4} \text{ DNE}$$

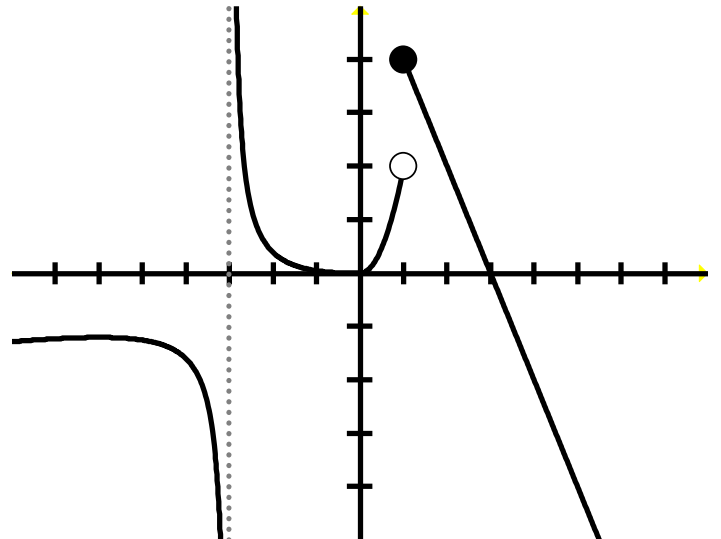


3) Find the limit below.

$$\lim_{x \rightarrow \infty} \frac{5x^2 + 2x + 1}{3x^3 + 2x^2 - 7x} = 0$$

4) Use the graph to find the limit below.

$$\lim_{x \rightarrow 1^-} f(x) = 2$$



5) Sketch a graph of the function below.

$$f(x) = \frac{x-3}{x-1}$$

