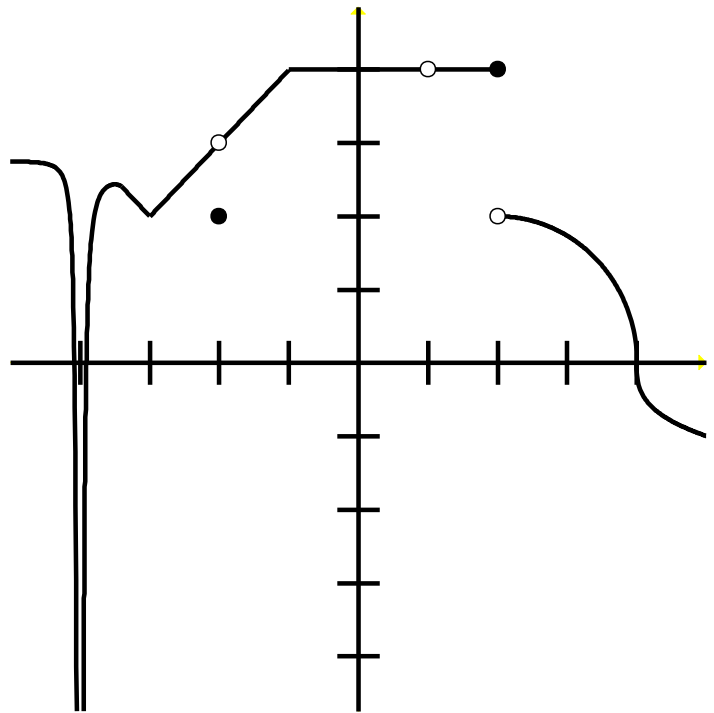


1) Find each of the following limits.

$$\lim_{x \rightarrow 3^+} \frac{x^2 - 5x + 6}{x^2 - 6x + 9}$$

$$\lim_{x \rightarrow \infty} \frac{x^3 + 3x + 2}{2x^3 + x^4}$$

2) For the function graphed below, identify each  $x$ -value at which the function is NOT continuous.



3) Find the value of  $a$  so that the limit below equals 4.

$$\lim_{x \rightarrow -\infty} \frac{ax^2 + 3}{2x^2 + 4}$$