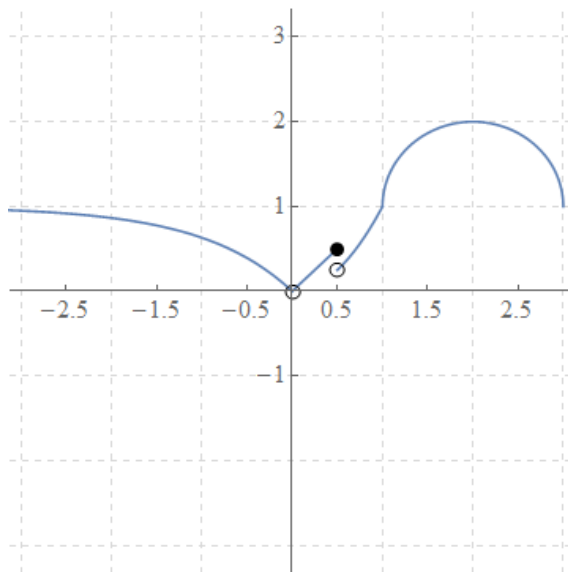


No calculators are allowed on this quiz. Please read each question carefully, follow directions and clearly mark your solutions. **Show your work for full credit.**

1. (4 points) For the function $f(x)$ graphed below, find the following (justify your answer if the limit does not exist)



(a) $f(0)$

(c) $\lim_{x \rightarrow 0.5} f(x)$

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

(d) $\lim_{x \rightarrow 0} f(x)$

2. (6 points) Find the limits:

(a) $\lim_{x \rightarrow -2} \frac{x^2 - x - 6}{x^2 + x - 2}$

$$(b) \lim_{x \rightarrow \infty} \frac{3x^2 + 7x - 2}{-x^2 + 3}$$

$$(c) \lim_{x \rightarrow 0^+} \frac{1}{x}$$

$$(d) \lim_{x \rightarrow 1^-} \frac{x - \sqrt{x}}{x - 1}$$