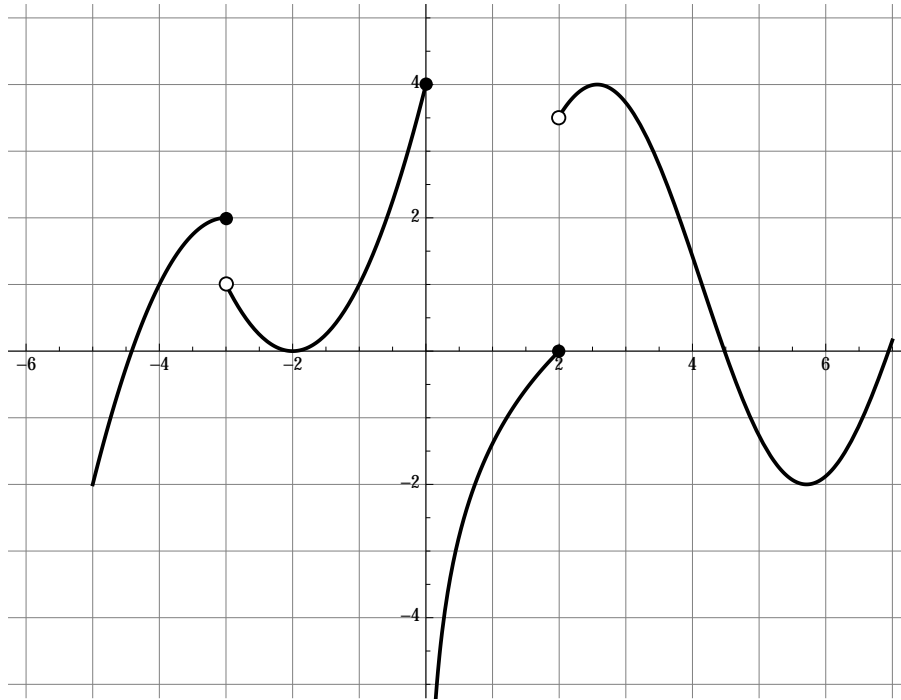


Name:

Class quiz 1

September 2, 2016

I) Using the given graph find the following limits of f



$$\lim_{x \rightarrow -3^-} f(x) =$$

$$\lim_{x \rightarrow -3^+} f(x) =$$

$$\lim_{x \rightarrow -3} f(x) =$$

$$f(-3) =$$

$$\lim_{x \rightarrow 0^-} f(x) =$$

$$\lim_{x \rightarrow 0^+} f(x) =$$

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

$$f(0) =$$

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

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

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

$$f(2) =$$

state the vertical asymptote of f :

State the intervals on which the limit exists:

II) A car starts driving on a straight trajectory, its distance from the origin in miles t minutes later is given by the equation $y = 10t^2 + 15$.

a- Find the average velocity of the car between the time $t = 1min$ and

(a) $t = 1.5min$

(b) $t = 1.3min$

(c) $t = 1.2min$

(d) $t = 1.1min$

b- Estimate the instantaneous velocity when $t = 1$.