

M1210 (Midterm/Review even questions)

Chp 1 Review

Concepts Test: #2) False

$$\#6) \lim_{x \rightarrow 5} \frac{x^2 - 25}{x - 5} = \lim_{x \rightarrow 5} x + 5 = 10 ; \text{ True}$$

$$\#8) \lim_{x \rightarrow 0} \left(\frac{\sin x}{x} \right) = 1 ; \text{ False}$$

#12) True

#18) False (either $\lim_{x \rightarrow \infty} f(x) = 2$ or $\lim_{x \rightarrow -\infty} f(x) = 2$)

#20) $y = \frac{1}{x^2 - 4}$ has VA $x = 2$ and $x = -2$; True

Sample Test: #24) (a) 0 (b) 0 (c) 1 (d) -1

Chp 2 Review

Concepts Test: #10) False; $y' = 0$

#16) False; it would be $y - 1 = 3(x - 1)$

Sample Test: #6) $3x^2 - 6x - 2x^{-3}$

$$\#8) \frac{(x^2 + 1)(3) - (3x - 5)(2x)}{(x^2 + 1)^2}$$

#38) (a) $t = 4$ secs, $s = 256$ ft (b) $t = 8$ sec, $v = 128 \frac{\text{ft}}{\text{sec}}$