

SM3 6.2 odd answers

$$1. \lim_{x \rightarrow 5^+} f(x) = -\infty$$

$$\lim_{x \rightarrow 5^-} f(x) = \infty$$

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

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

$$3. x = -4$$

$$5. x = -3, x = \frac{1}{2}$$

$$7. x \neq -\frac{2}{3}$$

$$\left(-\infty, -\frac{2}{3}\right) \cup \left(-\frac{2}{3}, \infty\right)$$

$$9. \text{H.A.: } y = 0$$

x -int: none

$$11. \text{H.A.: } y = 0$$

x -int: (4,0)

$$13. \text{y-int: } (0,0)$$

$$15. \text{V.A.: } x = -5, x = -3$$

$$\text{H.A.: } y = 0$$

Domain: $(-\infty, -5) \cup (-5, -3) \cup (-3, \infty)$

x -int: $\left(\frac{3}{2}, 0\right)$

y -int: $\left(0, -\frac{1}{5}\right)$