

PRINTABLE VERSION

Quiz 19

Question 1

Find the x -intercept(s) of the function

$$f(x) = \frac{x-1}{x-8}$$

- a) $x = 1, x = 8$
- b) There are no x -intercepts.
- c) $x = -1$
- d) $x = 1$
- e) $x = 8$
- f) None of the above

Question 2

Find the y -intercept(s) of the function

$$f(x) = \frac{x+10}{x-8}$$

- a) 10
- b) $-\frac{5}{4}$
- c) There are no y -intercept.
- d) $\frac{5}{4}$
- e) -10
- f) None of the above

Question 3

Find the horizontal asymptote(s), if any, of the function

$$f(x) = \frac{x - 11}{x + 7}$$

- a) $y = 1$
- b) $y = 0$
- c) $y = 11$
- d) There are no horizontal asymptotes.
- e) $y = -7$
- f) None of the above

Question 4

Find the vertical asymptote(s), if any, of the function

$$f(x) = -\frac{3}{x + 9}$$

- a) $x = 3$
- b) There are no vertical asymptotes.
- c) $x = -9$
- d) $x = -3$
- e) $x = 9$
- f) None of the above

Question 5

Find any holes of the function

$$f(x) = \frac{x^2 + 17x + 70}{x + 7}$$

- a) $x = -7$

- b) There are no holes.
- c) $x = -10$
- d) $x = 7$
- e) $x = 6$
- f) None of the above

Question 6

Find the x -intercept(s) of the function

$$f(x) = \frac{x + 12}{x^2 + 13x + 12}$$

- a) There are no x -intercepts.
- b) $x = 10$
- c) $x = -1$
- d) $x = -12$
- e) $x = -12, x = -1$
- f) None of the above

Question 7

Find the vertical asymptote(s), if any, of the function

$$f(x) = \frac{x^2 - 5x - 24}{x + 3}$$

- a) $x = 8$
- b) $x = -3$
- c) There are no vertical asymptotes.
- d) $x = 8, x = -3$
- e) $x = 1$

- f) None of the above

Question 8

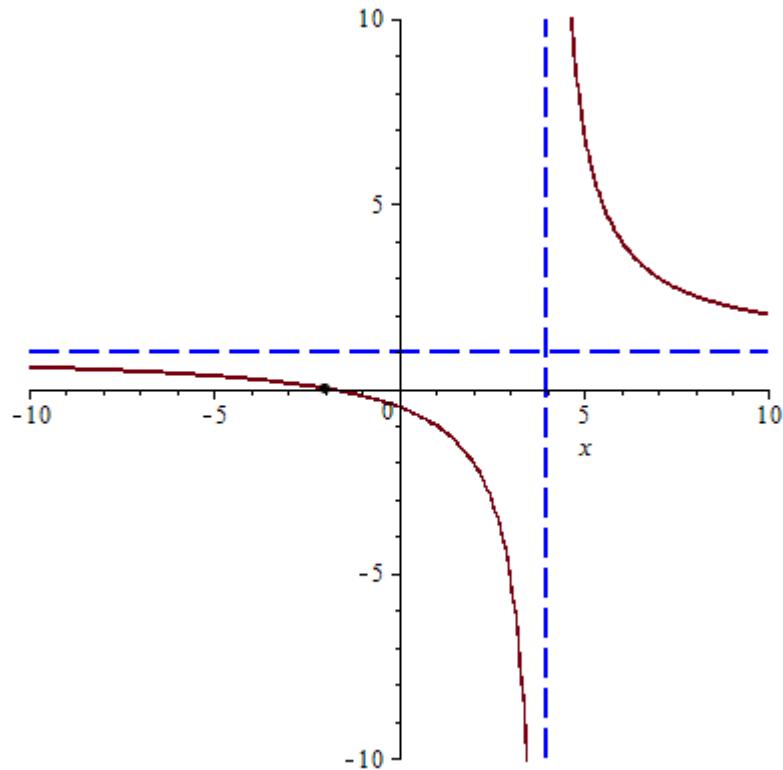
Find the horizontal asymptote(s), if any, of the function

$$f(x) = \frac{x^2 + 10x + 25}{2x^2 + 25}$$

- a) $y = 2$
- b) $y = \frac{1}{2}$
- c) There are no horizontal asymptotes.
- d) $y = 0$
- e) $y = -5$
- f) None of the above

Question 9

Find the function, whose graph is shown below



a) $f(x) = \frac{x+2}{x+4}$

b) $f(x) = \frac{x-2}{x+4}$

c) $f(x) = \frac{x-4}{x+2}$

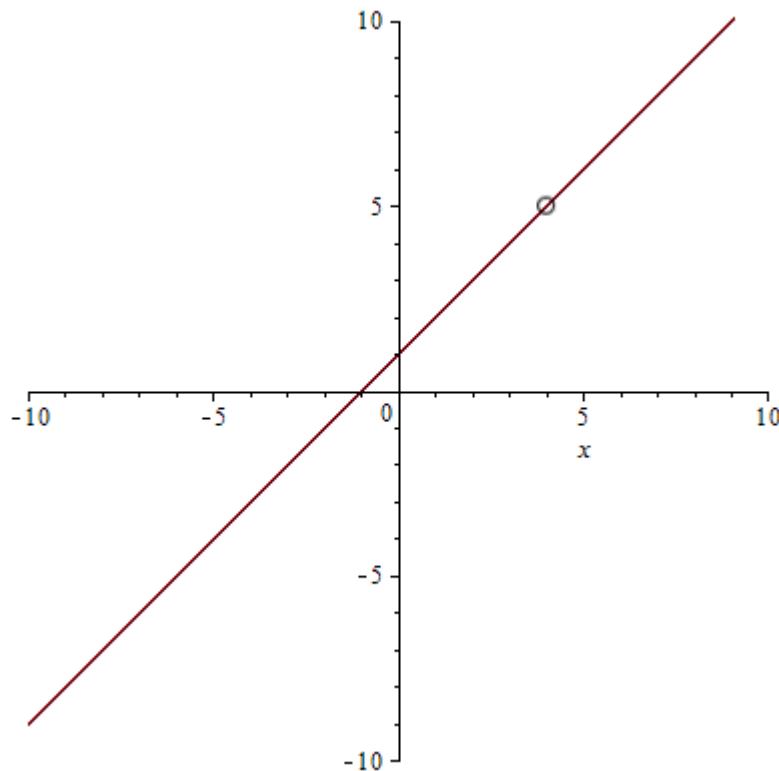
d) $f(x) = \frac{x+2}{x-4}$

e) $f(x) = \frac{x-2}{x-4}$

f) None of the above

Question 10

Find the function, whose graph is shown below



a) $f(x) = \frac{(x-4)(x+1)}{x-4}$

b) $f(x) = \frac{x-4}{(x-4)(x-1)}$

c) f(x) = $\frac{(x + 4)(x - 1)}{x + 4}$

d) f(x) = $\frac{(x - 4)(x - 1)}{x - 4}$

e) f(x) = $\frac{x - 4}{(x - 4)(x + 1)}$

f) None of the above