1- Find the domain of each function:

a. $f(x) = x^3 - 2x + 1$.

b. $f(x) = \sqrt{5 - x}$.

c. $f(x) = \frac{x-1}{x^2-9}$.

2- Let $f(x) = -\frac{1}{4}x - 15$, then evaluate $\frac{f(-12) - f(20)}{4}$.

3- Given the equation $y = x^2$.

a. Draw the graph of the equation.

b. Apply the vertical line test to part (a) to decide whether the graph is a graph of a function or not.

4- Find the x-intercepts of the function:

a. $y = x^2 + 16x + 64$.