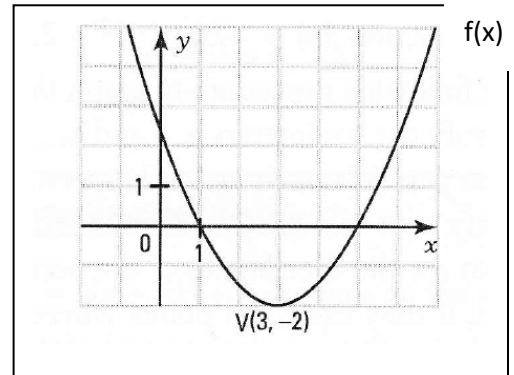


## QUIZ 1 Properties (given graph of Quadratic Function)

1. The graph given is a function. Explain how you know this to be true.



2. Domain: \_\_\_\_\_
3. Range: \_\_\_\_\_
4. Zero(s): \_\_\_\_\_
5. Y-intercept: \_\_\_\_\_
6. Sign:
- a. Interval over which  $f(x)$  is positive: \_\_\_\_\_
- b. Interval over which  $f(x)$  is negative: \_\_\_\_\_
7. Variation
- a. interval of increase: \_\_\_\_\_
- b. interval of decrease: \_\_\_\_\_
8. Extrema (maximum or minimum): \_\_\_\_\_