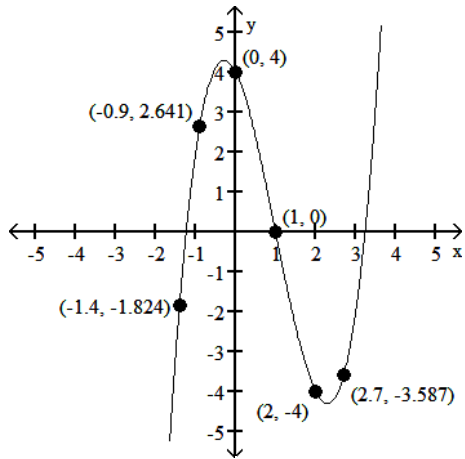
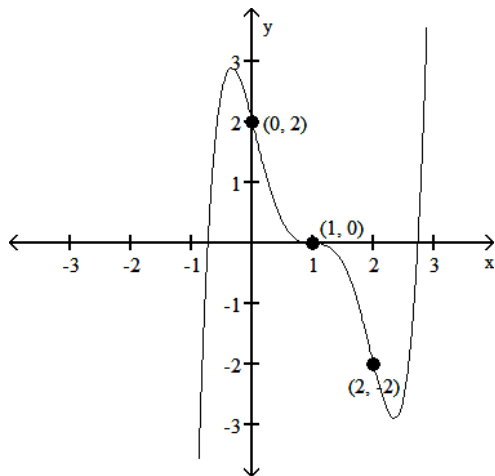


Intro Quiz 2.2 and 2.4 Examples

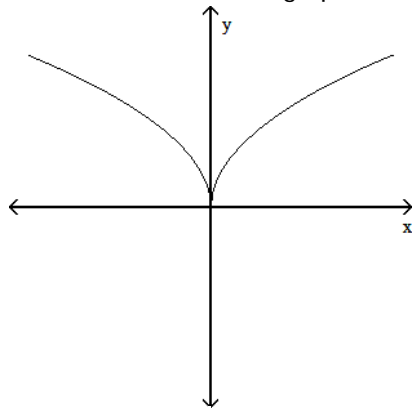
1) A graph of a function f is shown below. Find $f(0)$.



2) A graph of a function f is shown below. Find $f(2)$.

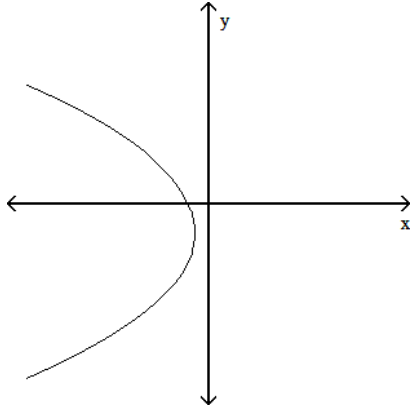


3) Determine whether the graph is the graph of a function. Answer with function or not a function.



Determine whether the graph is the graph of a function.

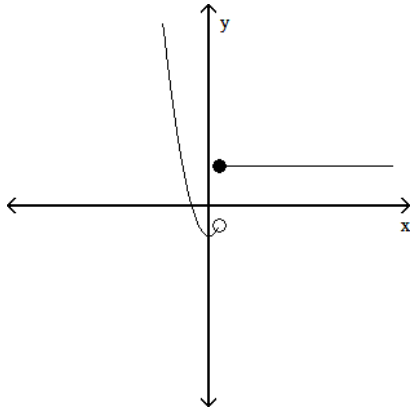
4)



A) Yes

B) No

5)

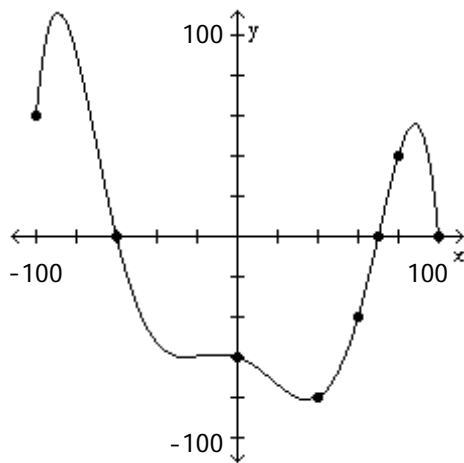


A) Yes

B) No

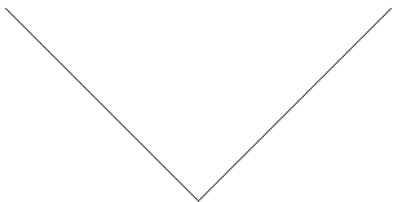
6) The graph of a function f is given. Use the graph to answer the question.

What are the x-intercepts?



Match the graph to the function listed whose graph most resembles the one given.

7)

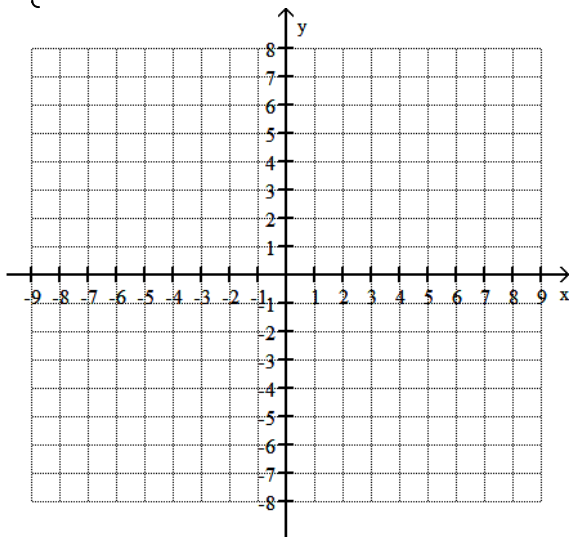


- A) square function
- C) linear function

- B) reciprocal function
- D) absolute value function

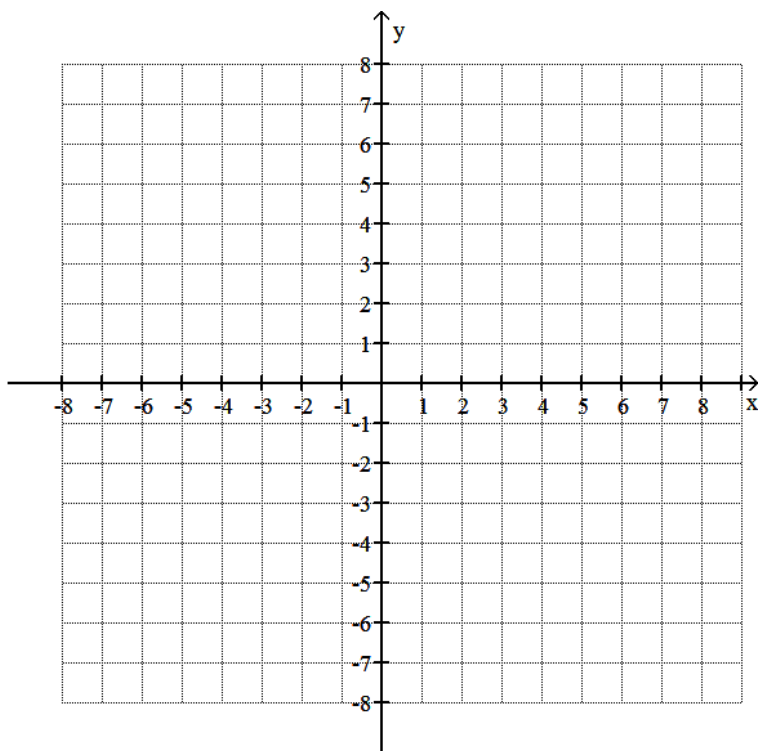
8) Graph the function.

$$f(x) = \begin{cases} -x + 3 & \text{if } x < 2 \\ 2x - 3 & \text{if } x \geq 2 \end{cases}$$



9) Graph the function.

$$f(x) = \begin{cases} 4 & ; \text{if } x < -2 \\ x^2 & ; \text{if } -2 \leq x \leq 2 \\ -x+6 & ; \text{if } x > 2 \end{cases}$$



10) Find the net change for the function between the given values.

$$f(x) = 2x - 4; \text{ from } 1 \text{ to } 2$$

11) Find the average rate of change for the function between the given values.

$$f(x) = x^2 + 3x; \text{ from } 1 \text{ to } 6$$

12) Find the average rate of change for the function between the given values.

$$f(x) = \sqrt{2x}; \text{ from } 2 \text{ to } 8$$

13) Along with incomes, people's charitable contributions have steadily increased over the past few years. The table below shows the average deduction for charitable contributions reported on individual income tax returns for the period 1993 to 1998. Find the average rate of change between 1995 and 1997.

Year	Charitable Contributions
1993	\$1660
1994	\$2350
1995	\$2500
1996	\$2780
1997	\$3010
1998	\$3120

A) \$330 per year

B) \$510 per year

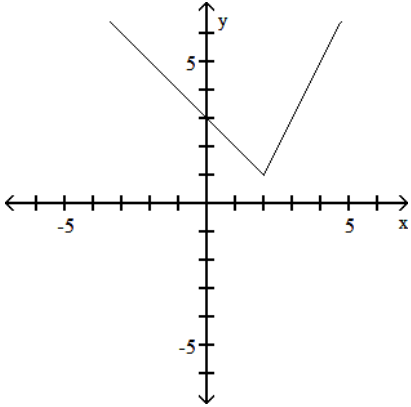
C) \$255 per year

D) \$310 per year

Answer Key

Testname:

- 1) 4
- 2) -2
- 3) Yes
- 4) B
- 5) A
- 6) -60, 70, 100
- 7) D
- 8)



- 9)
- 10)
- 11) 10
- 12) $\frac{1}{3}$
- 13) C