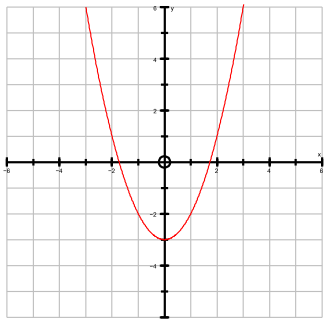
Functions 2.1
Algebra 2

Identify the domain and range for each relation and state whether it is a function?

1) {(3, -1); (7, 2); (9, 0); (7, -1)} 2) {(-1, 3); (2, 3); (-4, 3)} 3) {(-2, 3); (-2, 4); (-2, 5); (-2, 6)}

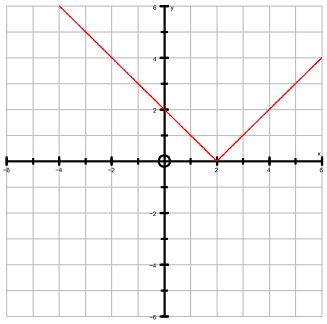
Give the domain and range for each relation graphed below in set notation, and state whether it is a function.

4) $y = x^2 - 3$



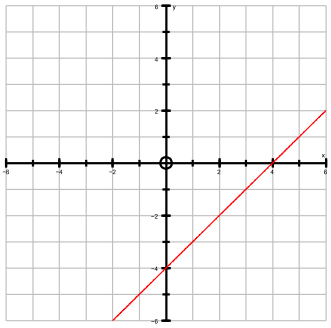
D:
R:
Function?

5) $y = |x - 2|$



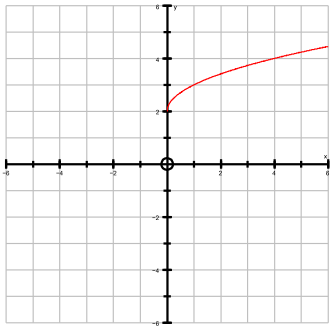
D:
R:
Function?

6) $y = x - 4$



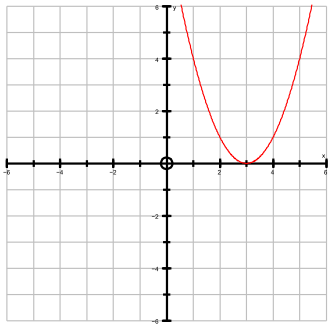
D:
R:
Function?

7) $y = +\sqrt{x} + 2$



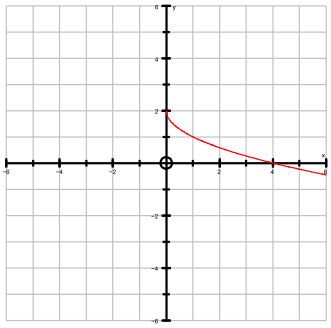
D:
R:
Function?

8) $y = (x - 3)^2$



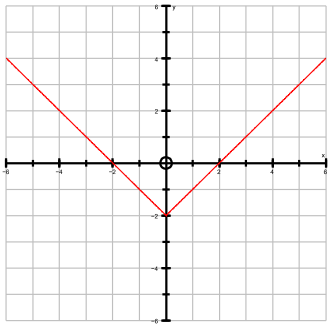
D:
R:
Function?

9) $y = -\sqrt{x} + 2$



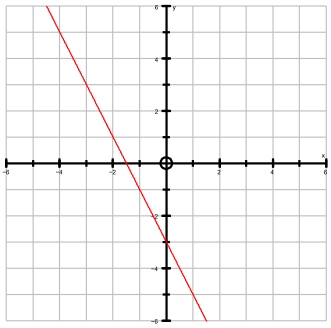
D:
R:
Function?

10) $y = |x| - 2$



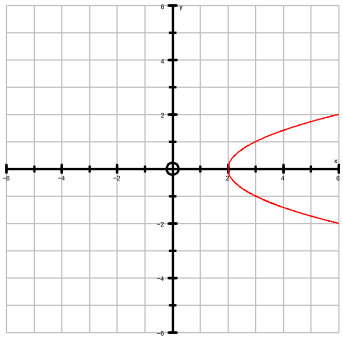
D:
R:
Function?

11) $y = -2x + 3$



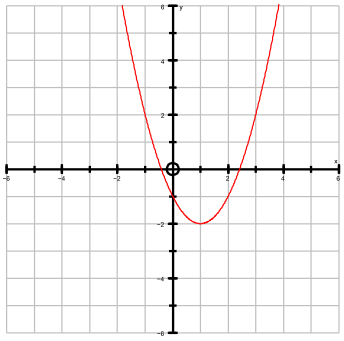
D:
R:
Function?

12) $y = \sqrt{(x - 2)}$



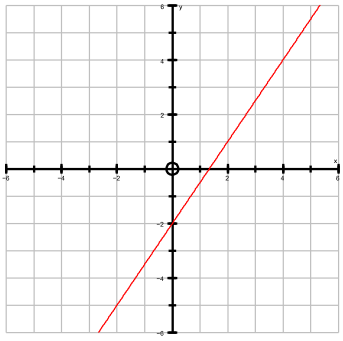
D:
R:
Function?

13) $y = (x - 1)^2 - 2$



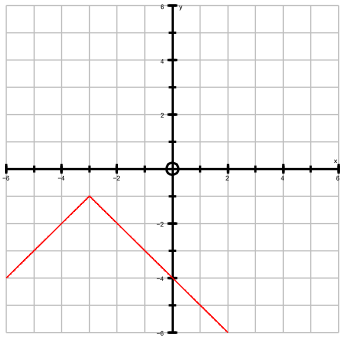
D:
R:
Function?

14) $y = 3/2x - 2$



D:
R:
Function?

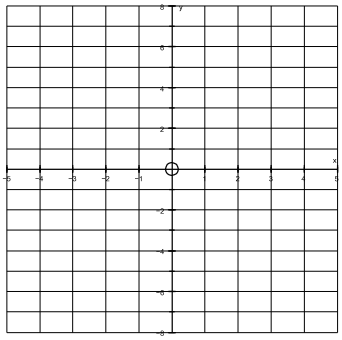
15) $y = -|x + 3| - 1$



D:
R:
Function?

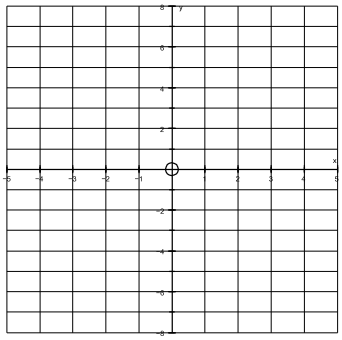
Graph each equation. Give the domain and range in set notation. State whether it is a function?

16) $y = (x + 2)^2$



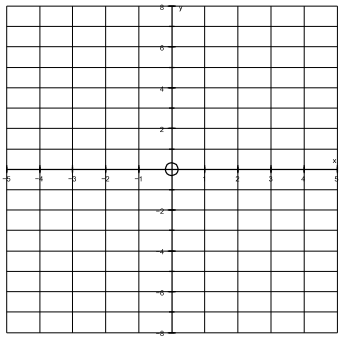
D:
R:
Function?

17) $y = +\sqrt{x} - 1$



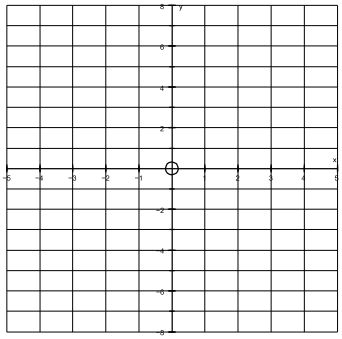
D:
R:
Function?

18) $y = -|x| + 2$



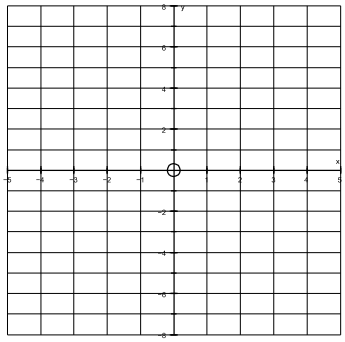
D:
R:
Function?

19) $y = -4/3x + 2$



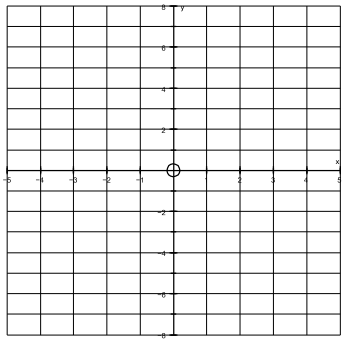
D:
R:
Function?

20) $y = -x^2 + 2$



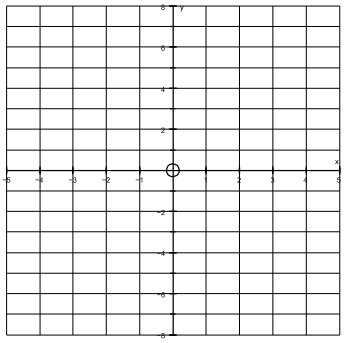
D:
R:
Function?

21) $y = \sqrt{(x + 2)}$



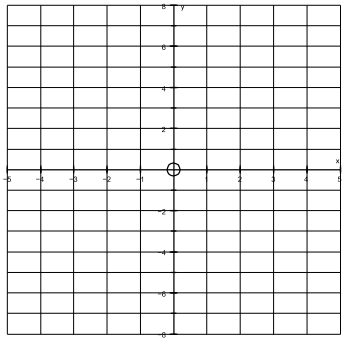
D:
R:
Function?

22) $y = |x - 3| - 3$



D:
R:
Function?

23) $y = 1/5x + 2$



D:
R:
Function?