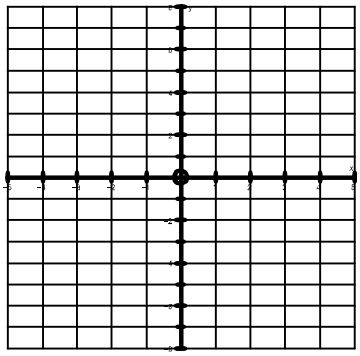
Graphing Relations: Transformations Intro

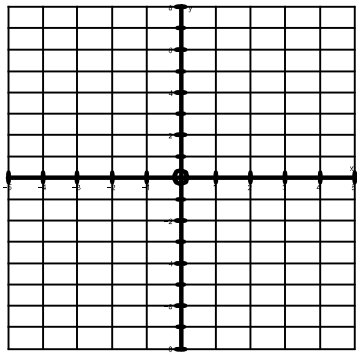
Graph the following equations with their parent graphs. Describe the transformation beneath each graph. Give the x and y intercepts.

1) $y = x^2$



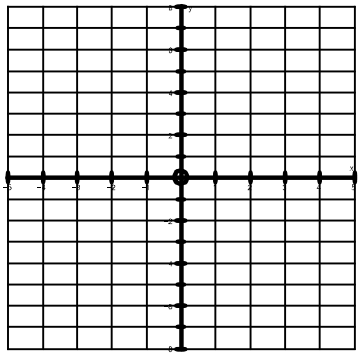
H:
R:
V:

2) $y = |x|$



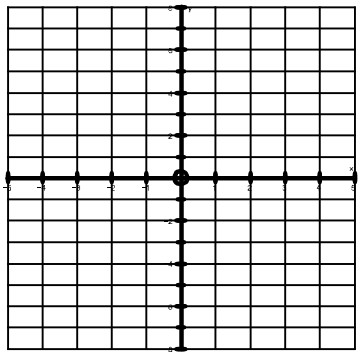
H:
R:
V:

3) $y = x$



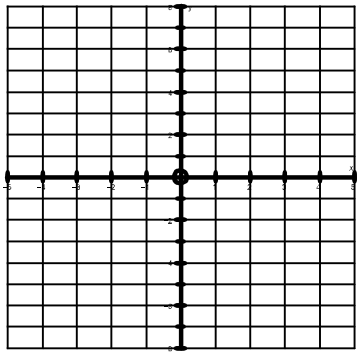
H:
R:
V:

4) $y = \sqrt{x}$



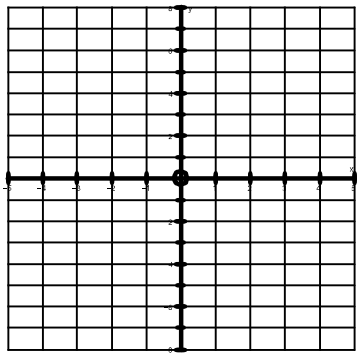
H:
R:
V:

5) $y = |x| + 2$



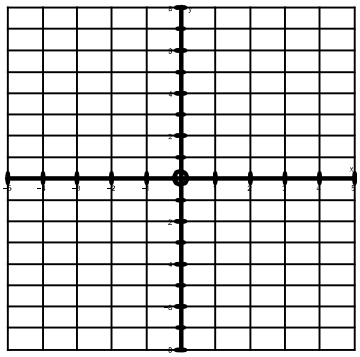
H:
R:
V:

6) $y = \sqrt{x} - 2$



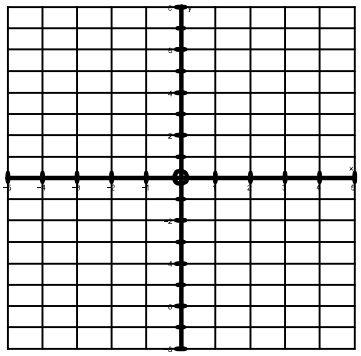
H:
R:
V:

7) $y = x^2 - 4$



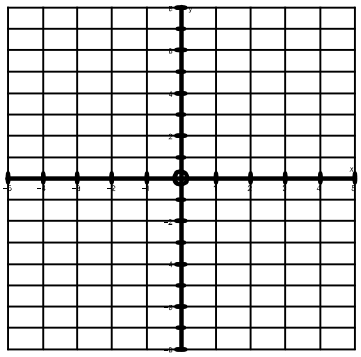
H:
R:
V:

8) $y = x + 3$



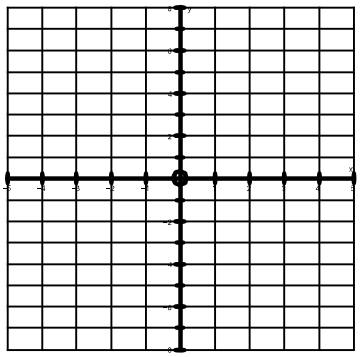
H:
R:
V:

9) $y = \sqrt{x+1}$



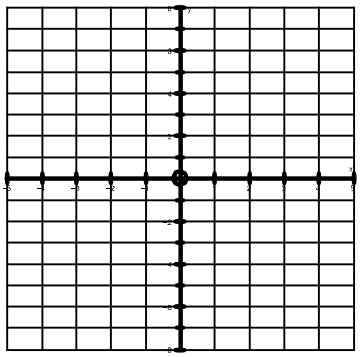
H:
R:
V:

10) $y = |x - 2|$



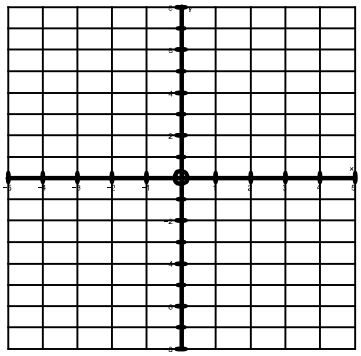
H:
R:
V:

11) $y = 2^{x+1}$



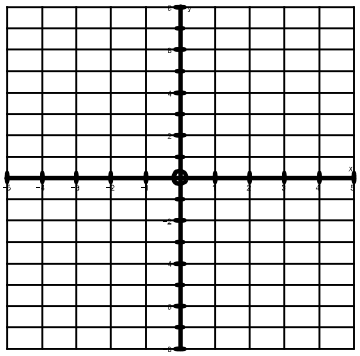
H:
R:
V:

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



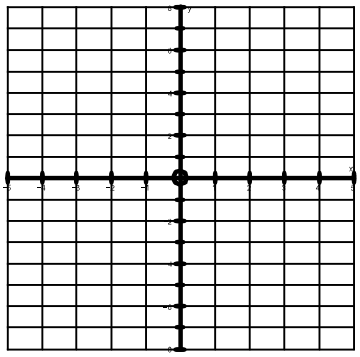
H:
R:
V:

13) $y = 2^x$



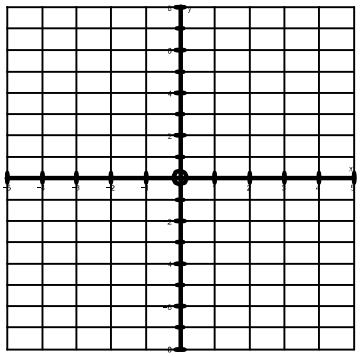
H:
R:
V:

14) $y = -x^2$



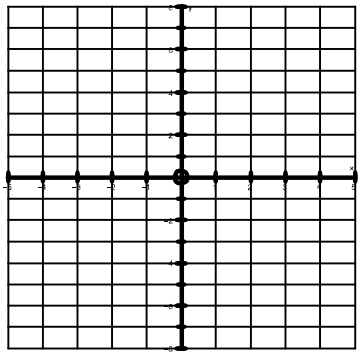
H:
R:
V:

15) $y = -\sqrt{x}$



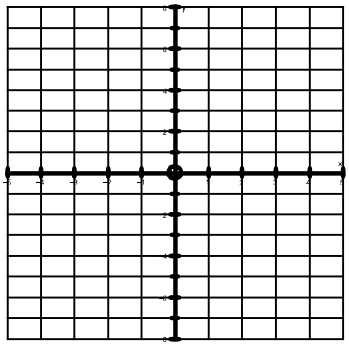
H:
R:
V:

16) $y = -|x|$



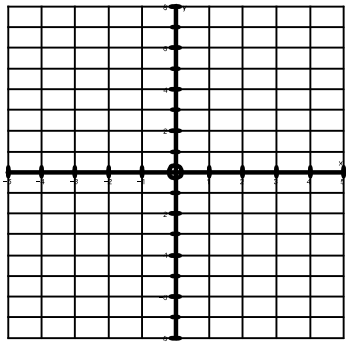
H:
R:
V:

17) $y = -x$



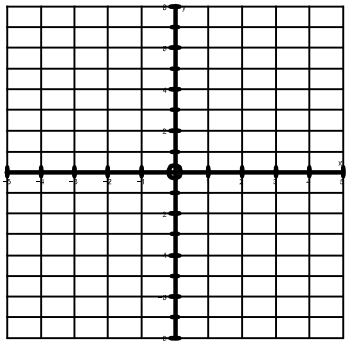
H:
R:
V:

18) $y = 2^x + 1$



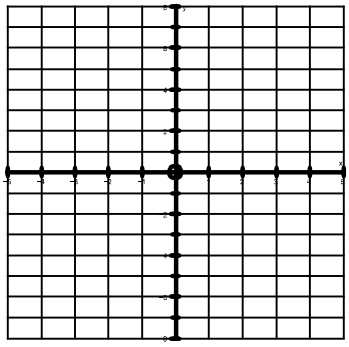
H:
R:
V:

19) $y = -2^x$



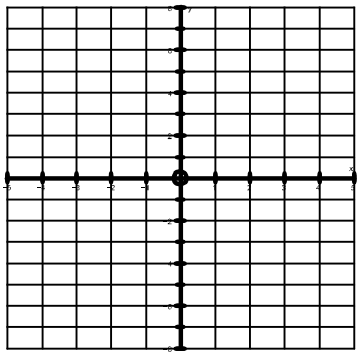
H:
R:
V:

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



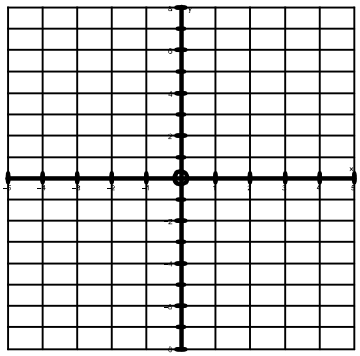
H:
R:
V:

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



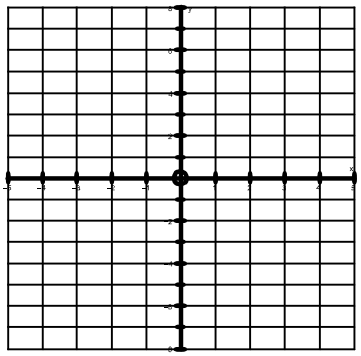
H:
R:
V:

22) $y = -x - 2$



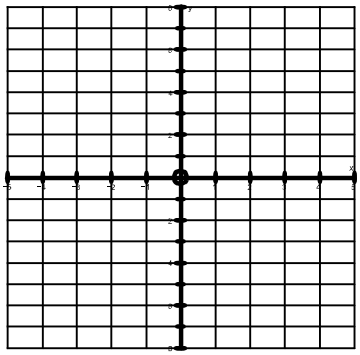
H:
R:
V:

23) $y = |x + 2| - 3$



H:
R:
V:

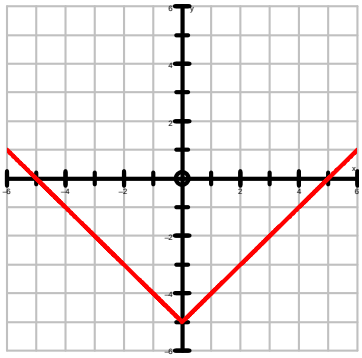
24) $y = -\sqrt{x-3}$



H:
R:
V:

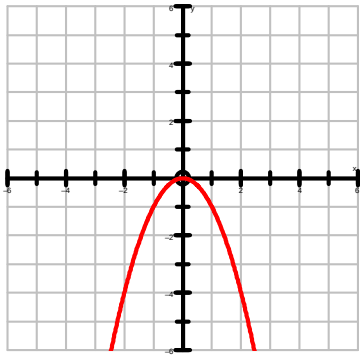
Given the graph of an equation, identify the parent equation, describe the transformations, and write the equation. Label the x and y intercepts.

25)



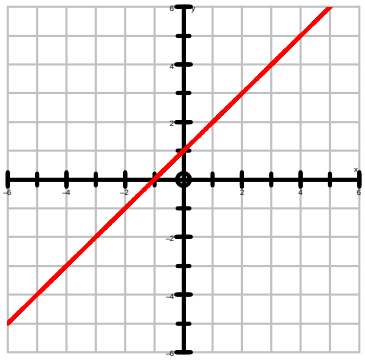
H:
R:
V:

26)



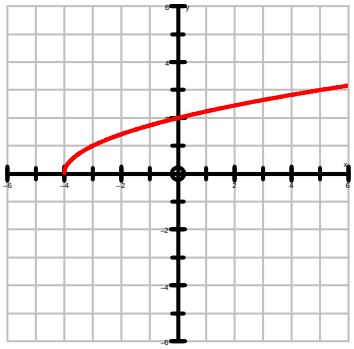
H:
R:
V:

27)



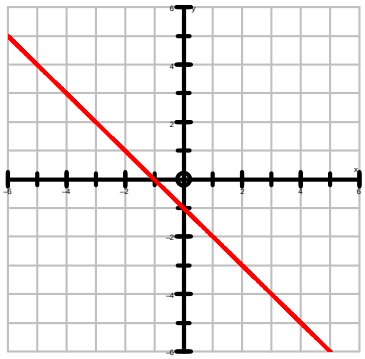
H:
R:
V:

28)



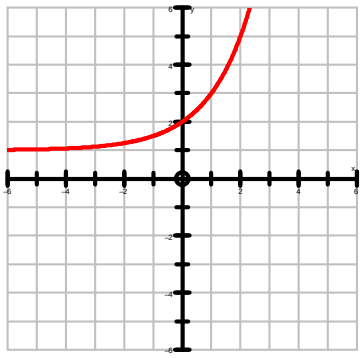
H:
R:
V:

29)



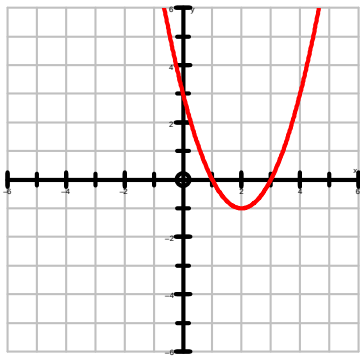
H:
R:
V:

30)



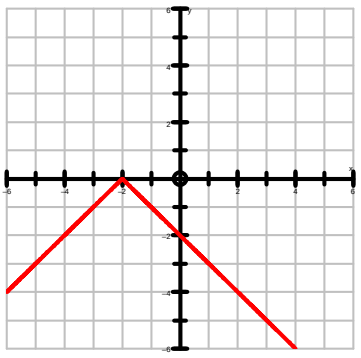
H:
R:
V:

31)



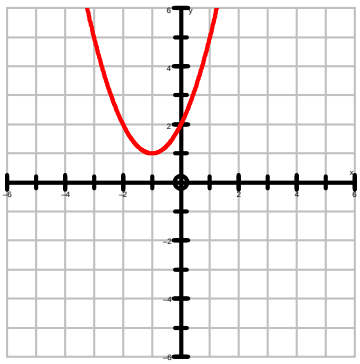
H:
R:
V:

32)



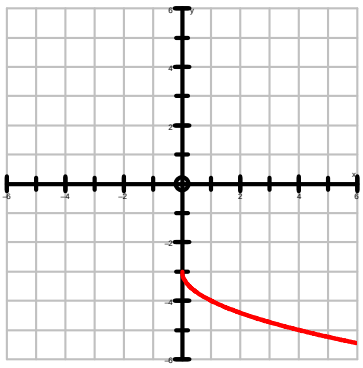
H:
R:
V:

33)



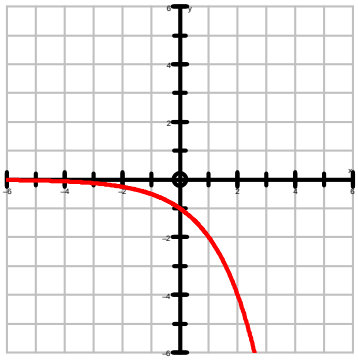
H:
R:
V:

34)



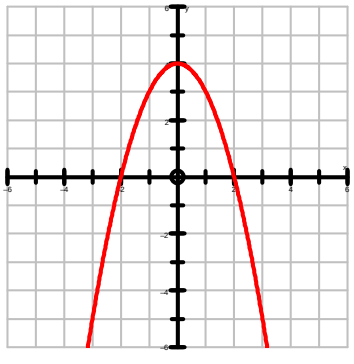
H:
R:
V:

35)



H:
R:
V:

36)



H:
R:
V: