

Graphing Equations: Transformations 2

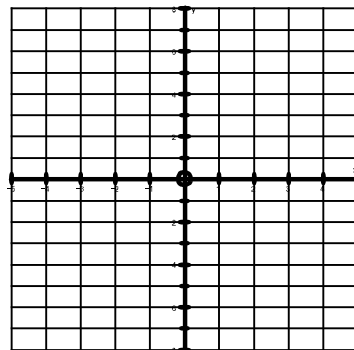
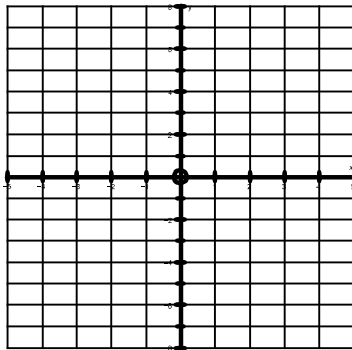
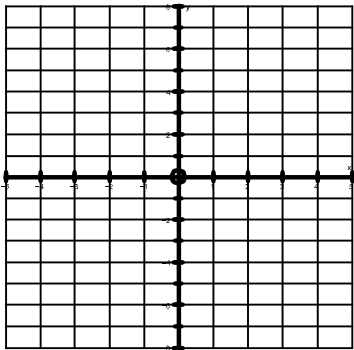
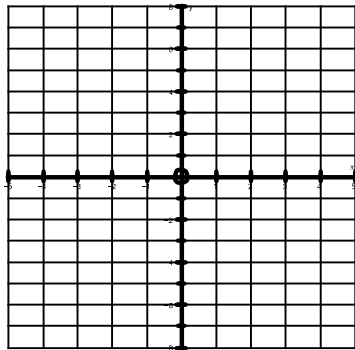
Graph the following equations with their parent graphs. Describe the transformation beneath each graph.

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

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

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

4) $y = -\sqrt{x+3}$



H:
R:
V:
W/N:

H:
R:
V:
W/N:

H:
R:
V:
W/N:

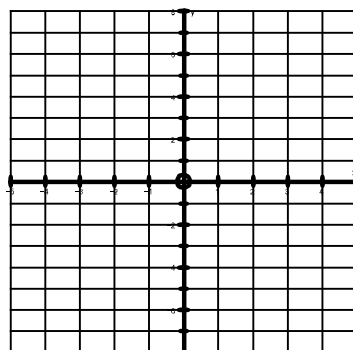
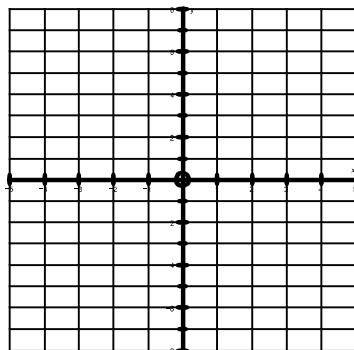
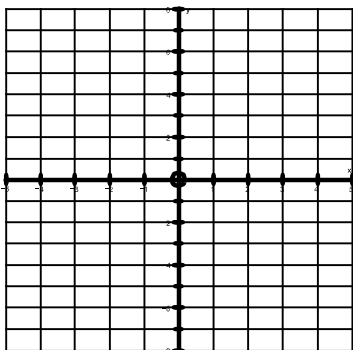
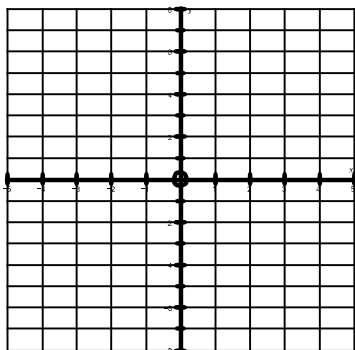
H:
R:
V:
W/N:

5) $y = -x^2 + 1$

6) $y = -2|x|$

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

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



H:
R:
V:
W/N:

H:
R:
V:
W/N:

H:
R:
V:
W/N:

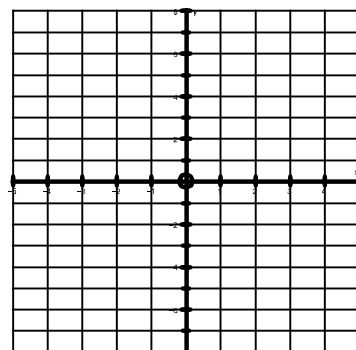
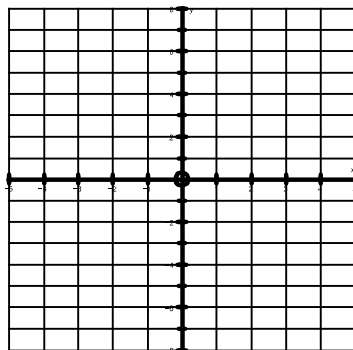
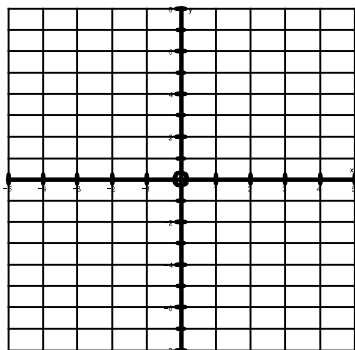
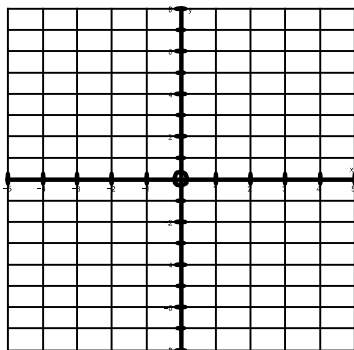
H:
R:
V:
W/N:

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

10) $y = 3\sqrt{-x} + 1$

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

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



H:
R:
V:
W/N:

H:
R:
V:
W/N:

H:
R:
V:
W/N:

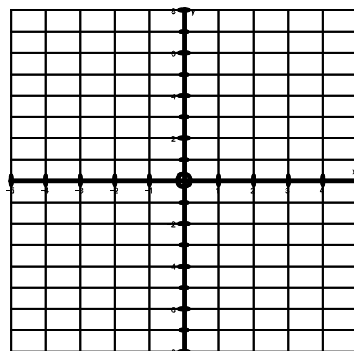
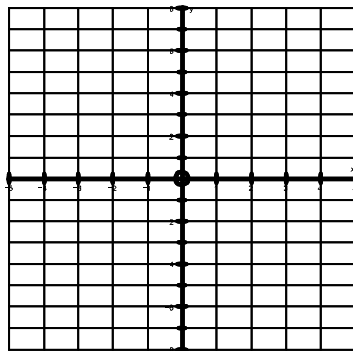
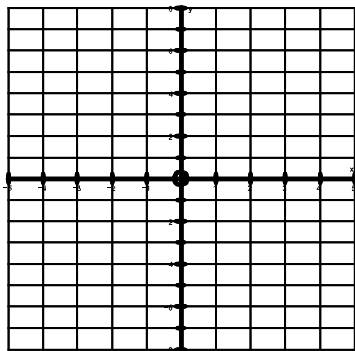
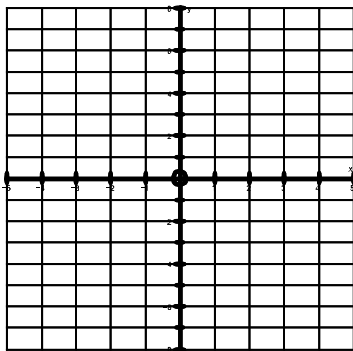
H:
R:
V:
W/N:

13) $y = 1/4|-x - 1| - 1$

14) $y = -3(-x + 2)^2$

15) $y = -\sqrt{-x-2} - 1$

16) $y = -2|x - 3| + 4$



H:
R:
V:
W/N:

H:
R:
V:
W/N:

H:
R:
V:
W/N:

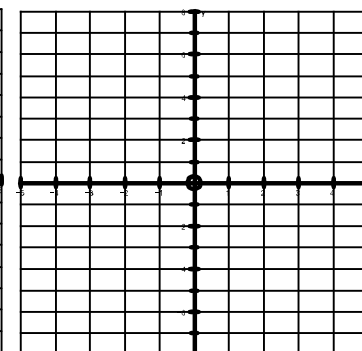
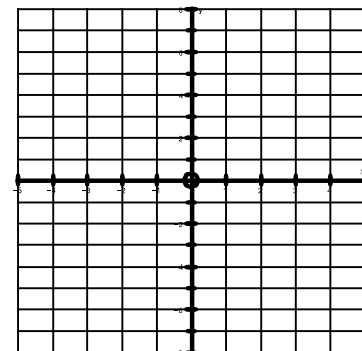
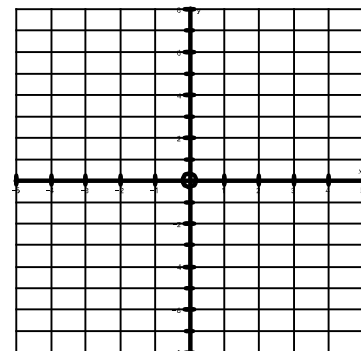
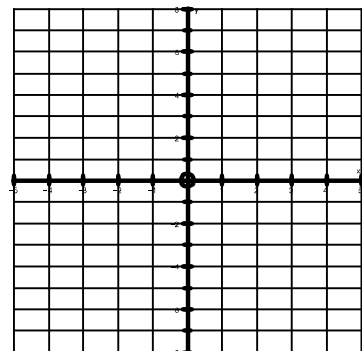
H:
R:
V:
W/N:

17) $y = 2^x + 2$

18) $y = -3^{(x+2)}$

19) $y = 2^{(x-2)} - 1$

20) $y = -5^{(-x)}$



H:
R:
V:
W/N:

H:
R:
V:
W/N:

H:
R:
V:
W/N:

H:
R:
V:
W/N:

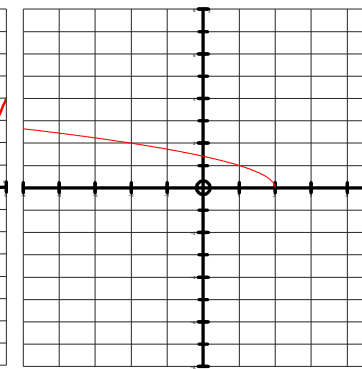
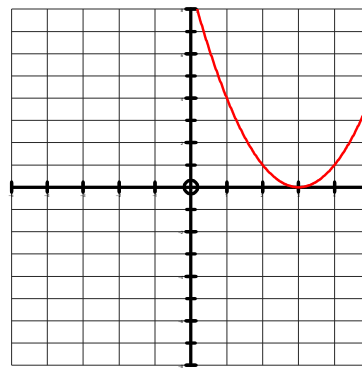
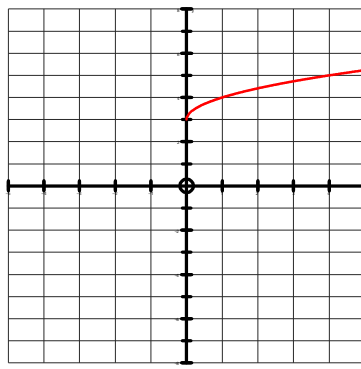
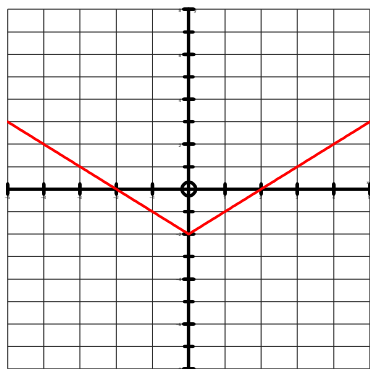
Given the graph of an equation, identify the parent equation, describe the transformations, and write the equation.

21)

22)

23)

24)



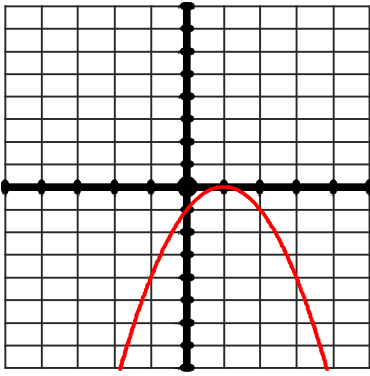
H:
R:
V:
W/N:

H:
R:
V:
W/N:

H:
R:
V:
W/N:

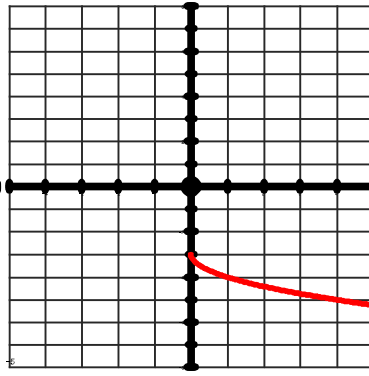
H:
R:
V:
W/N:

25)



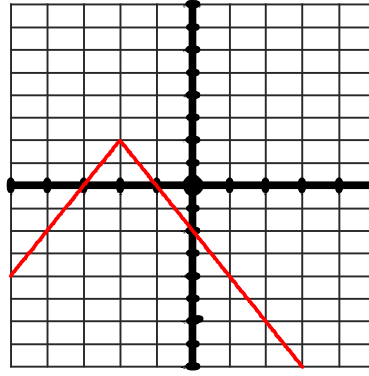
H:
R:
V:
W/N:

26)



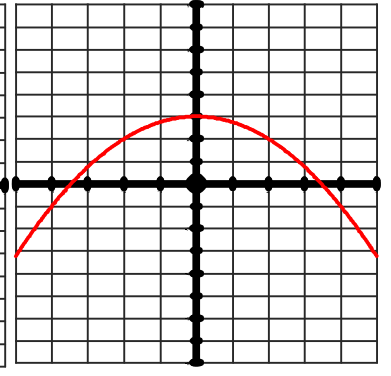
H:
R:
V:
W/N:

27)



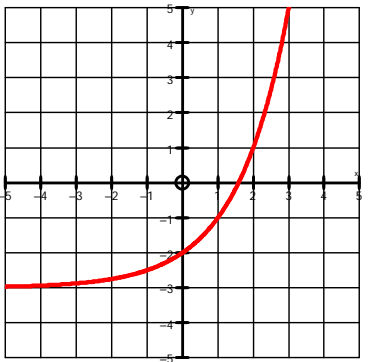
H:
R:
V:
W/N:

28)



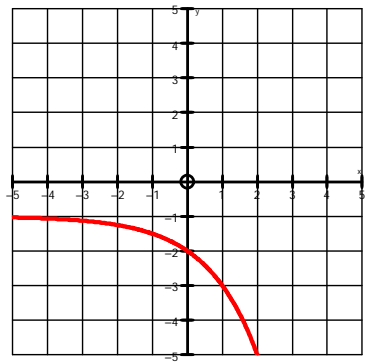
H:
R:
V:
W/N:

29)



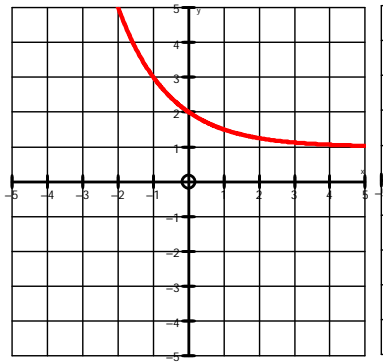
H:
R:
V:
W/N:

30)



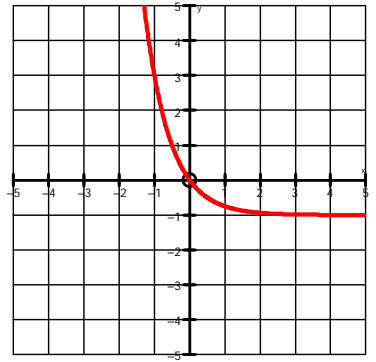
H:
R:
V:
W/N:

31)



H:
R:
V:
W/N:

32)



H:
R:
V:
W/N: