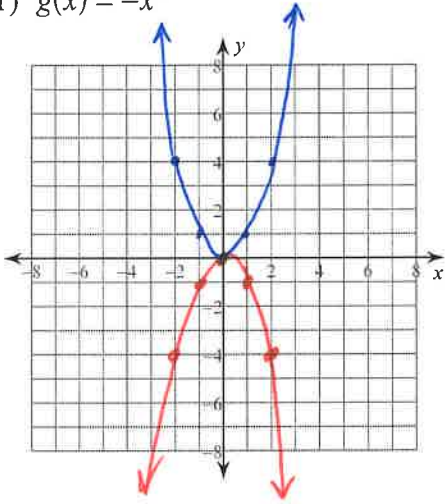


1-5 Transformations of Functions Practice

Date _____ Period _____

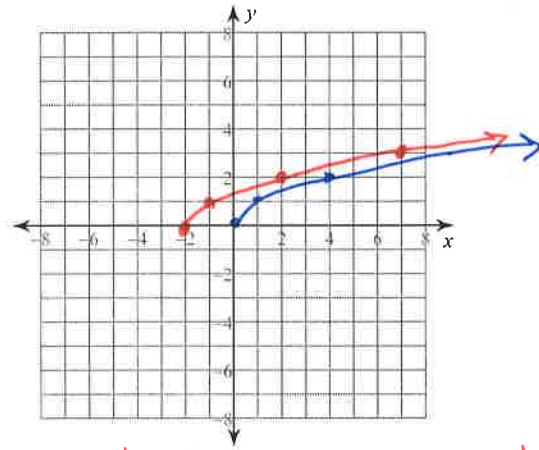
Sketch the graph of each function along with the parent, then state the transformation.

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



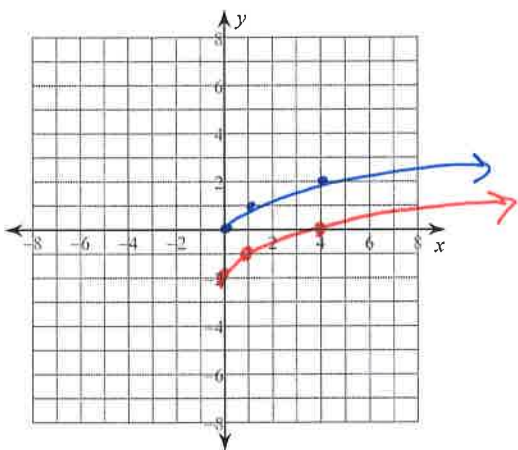
reflection over
x-axis

2) $g(x) = \sqrt{x+2}$



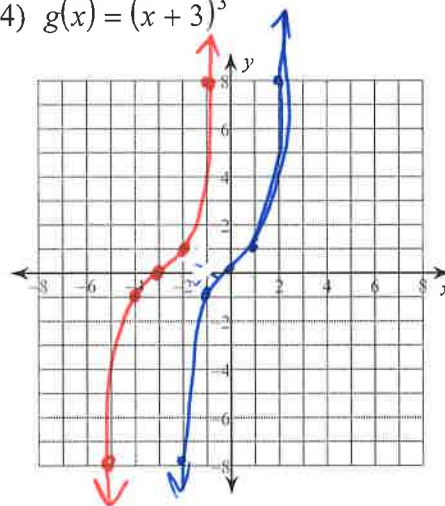
left 2 units

3) $g(x) = \sqrt{x} - 2$



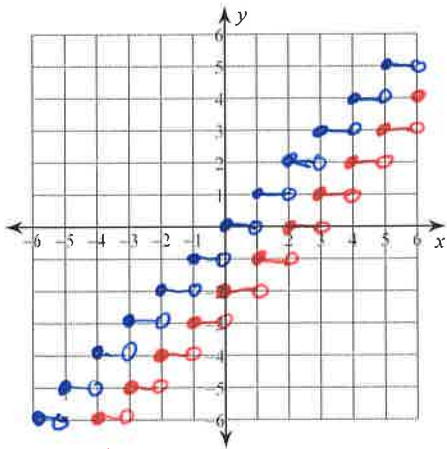
down 2
units

4) $g(x) = (x+3)^3$



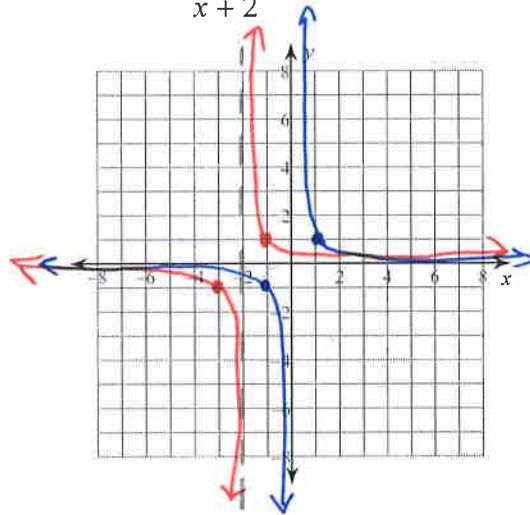
left 3

5) $g(x) = \lfloor x \rfloor - 2$



down 2.

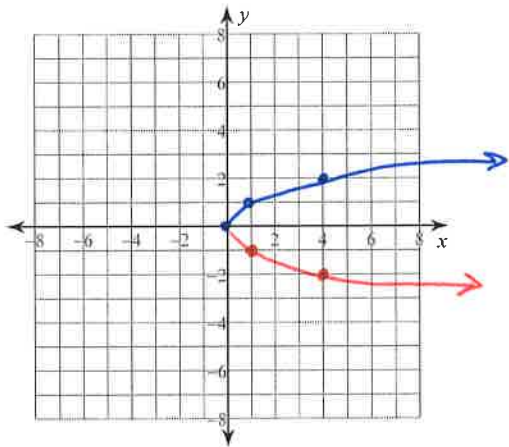
6) $g(x) = \frac{1}{x+2}$



left 2 units

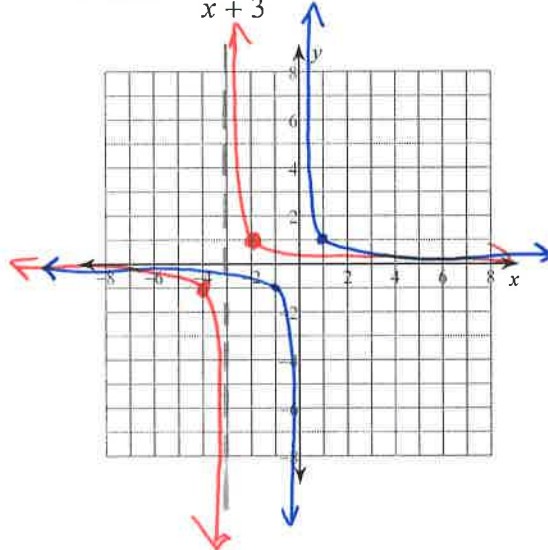
VA @ $x = -2$
HA @ $y = 0$

7) $g(x) = -\sqrt{x}$



reflection over x

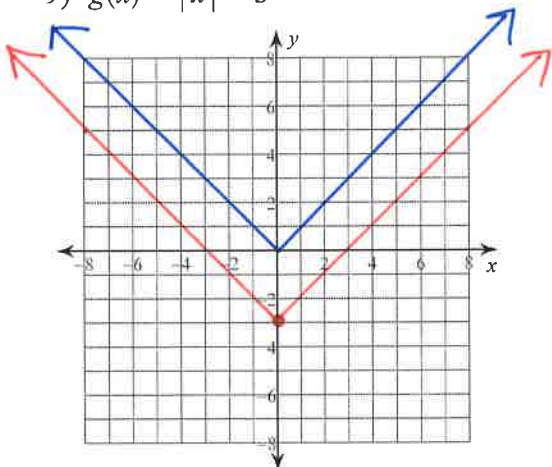
8) $g(x) = \frac{1}{x+3}$



left 3 units

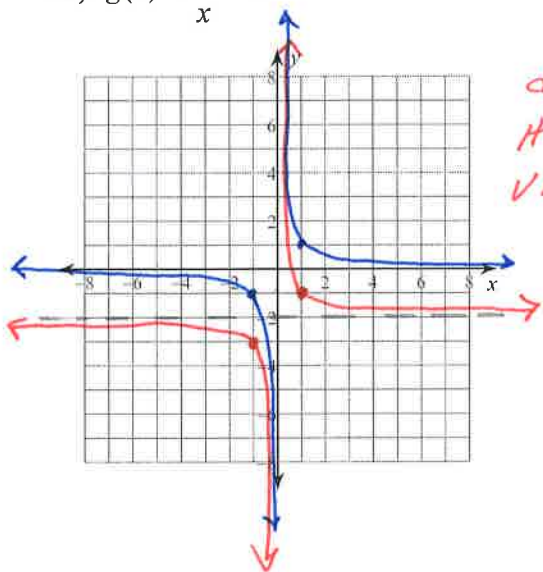
HA @ $y = 0$
VA @ $x = -3$

9) $g(x) = |x| - 3$



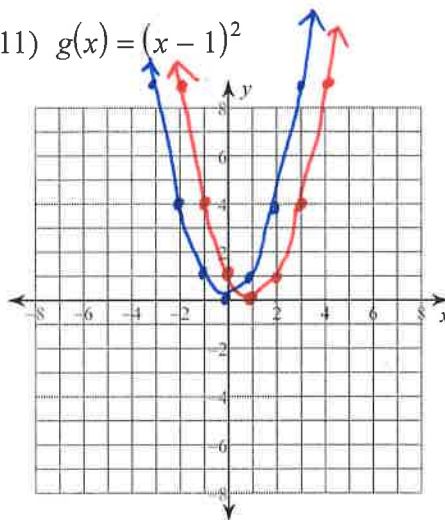
down 3

10) $g(x) = \frac{1}{x} - 2$



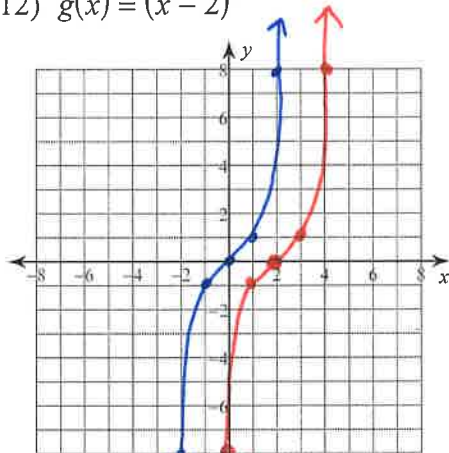
down 2
HA @ $y = -2$
VA @ $x = 0$

11) $g(x) = (x - 1)^2$



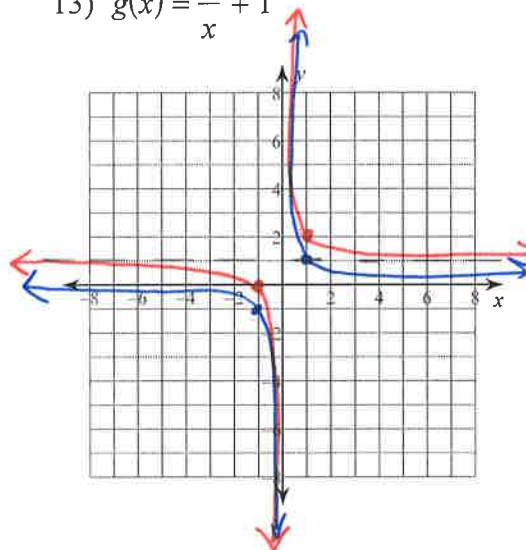
right
1 unit

12) $g(x) = (x - 2)^3$



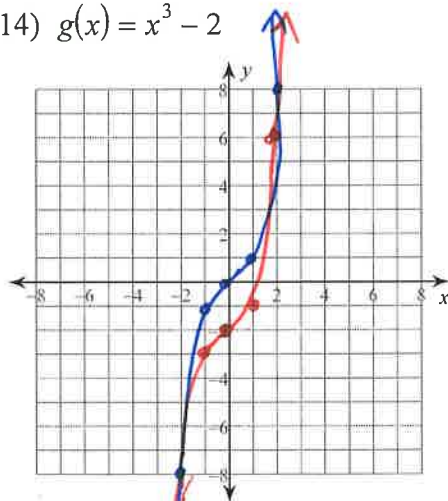
Right 2 units

13) $g(x) = \frac{1}{x} + 1$



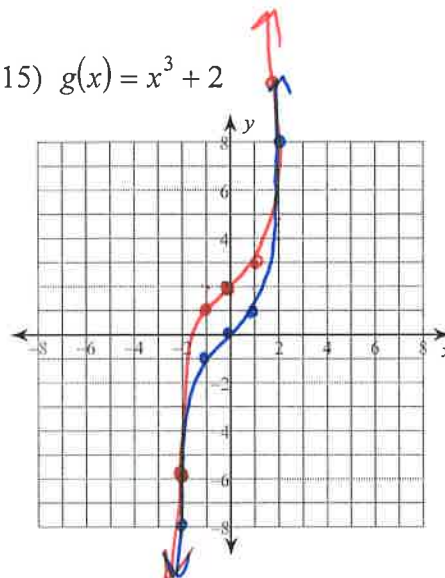
up 1 unit
VA @ $x = 0$
HA @ $y = 1$

14) $g(x) = x^3 - 2$



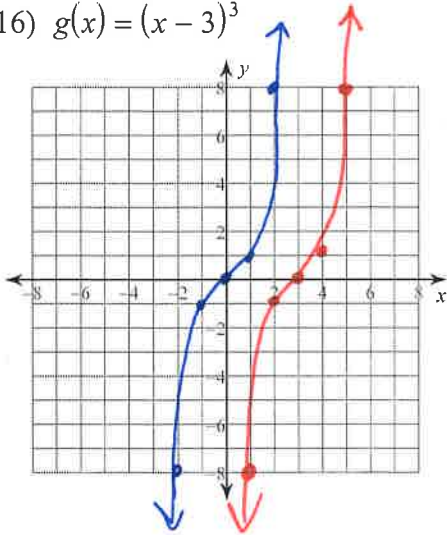
down 2 units

15) $g(x) = x^3 + 2$



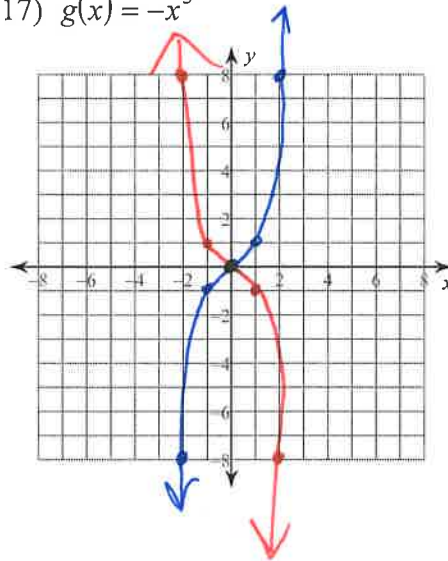
up 2
units.

16) $g(x) = (x - 3)^3$



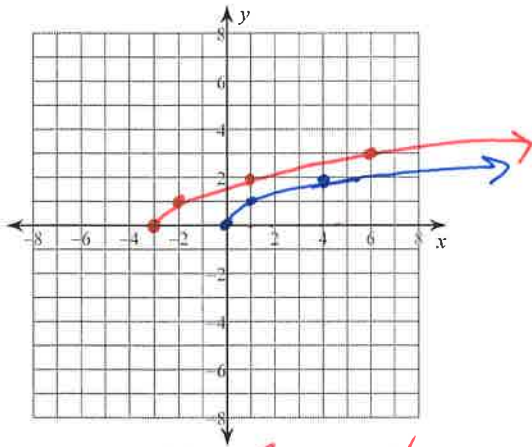
right 3

17) $g(x) = -x^3$



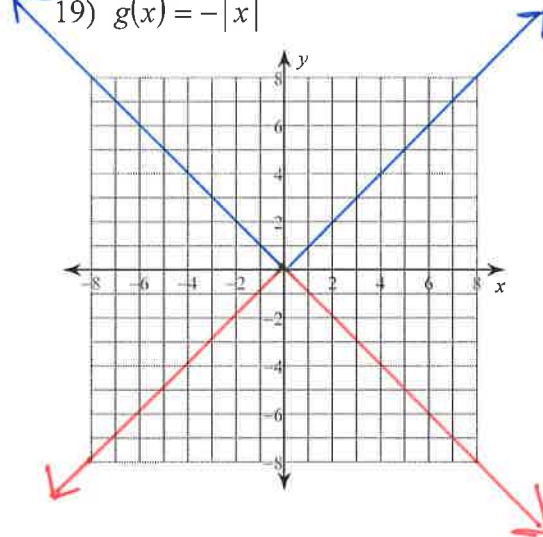
reflection over x

18) $g(x) = \sqrt{x + 3}$

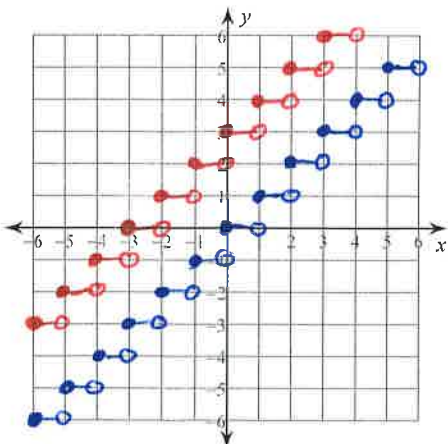


left 3 units

19) $g(x) = -|x|$



20) $g(x) = \lfloor x + 3 \rfloor$



left 3 units