

F.S.T.
Homework 3-2

Name _____
Block : _____

For each problem, complete the following steps:

- (a) Identify the parent function name and equation.
- (b) State the transformation rule.
- (c) Sketch the graph by hand.
- (d) Check the graph with a graphing calculator.

1. $y = \frac{1}{x-4} + 3$

(a) _____

(b) _____

(c) _____

3. $y = \sqrt{x} + 2$

(a) _____

(b) _____

(c) _____

2. $y = (x + 2)^3 + 1$

(a) _____

(b) _____

(c) _____

4. $y = (x + 3)^2 + 6$

(a) _____

(b) _____

(c) _____

5. $y = |x - 2| - 3$

(a) _____

(b) _____

(c)

7. $y = \frac{1}{(x + 3)^2}$

(a) _____

(b) _____

(c)

6. $y = \sqrt{x + 2} - 1$

(a) _____

(b) _____

(c)

8. $y = 2^x - 3$

(a) _____

(b) _____

(c)