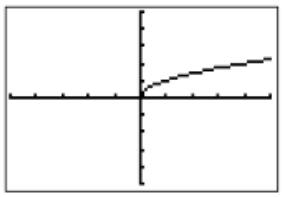
Name:_____

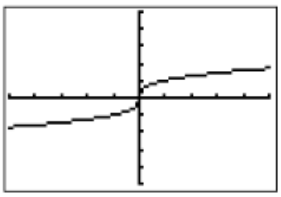
Graphing Practice 6.5

For each of the following functions, circle the correct description or fill in the blank about its given properties.

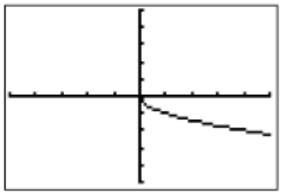
A



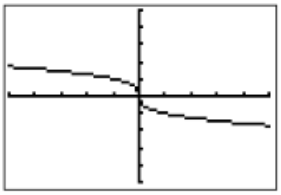
B



C



D



1. $f(x) = 3\sqrt{x+1}$

a. Basic shape: A B C D

b. Flatter Steeper Same

c. Horizontal Shift_____

d. Vertical Shift_____

e. Domain_____

Range_____

2. $f(x) = \sqrt[3]{x} + 1$

a. Basic shape: A B C D

b. Flatter Steeper Same

c. Horizontal Shift_____

d. Vertical Shift_____

e. Domain_____

Range_____

3. $f(x) = \frac{2}{3}\sqrt{x+2} - 2$

a. Basic shape: A B C D

b. Flatter Steeper Same

c. Horizontal Shift_____

d. Vertical Shift_____

e. Domain_____

Range_____

4. $f(x) = -\sqrt{x-3}$

a. Basic shape: A B C D

b. Flatter Steeper Same

c. Horizontal Shift_____

d. Vertical Shift_____

e. Domain_____

Range_____

5. $f(x) = \sqrt[3]{x} + 1$

a. Basic shape: A B C D

b. Flatter Steeper Same

c. Horizontal Shift_____

d. Vertical Shift_____

e. Domain_____

Range_____

6. $f(x) = -\sqrt[3]{x+4}$

a. Basic shape: A B C D

b. Flatter Steeper Same

c. Horizontal Shift_____

d. Vertical Shift_____

e. Domain_____

Range_____

7. $f(x) = 3\sqrt[3]{x}$

a. Basic shape: A B C D

b. Flatter Steeper Same

c. Horizontal Shift_____

d. Vertical Shift_____

e. Domain_____

Range_____

8. $f(x) = 2\sqrt{x-2} - 2$

a. Basic shape: A B C D

b. Flatter Steeper Same

c. Horizontal Shift_____

d. Vertical Shift_____

e. Domain_____

Range_____

9. $f(x) = -2\sqrt[3]{x+3} + 4$

a. Basic shape: A B C D

b. Flatter Steeper Same

c. Horizontal Shift_____

d. Vertical Shift_____

e. Domain_____

Range_____

10. $f(x) = \frac{1}{3}\sqrt{x} - 2$

a. Basic shape: A B C D

b. Flatter Steeper Same

c. Horizontal Shift_____

d. Vertical Shift_____

e. Domain_____

Range_____