Name _____ Date _____

Skills Maintenance
Squaring Numbers

Activity 1

Square each of the numbers. You may use a calculator.

1. 2^2 _____

2. 1.2^2 _____

3. $\left(\frac{1}{2}\right)^2$ _____

4. $(4 + 2)^2$ _____

5. 2.8^2 _____

Name _____ Date _____

%÷ Apply Skills
<=x The Radical Sign and Algebraic Equations

Activity 1

Use algebra and properties of square roots to solve the each expression.

Model	$\sqrt{x+3} = 6$ _____ Answer: $\left(\sqrt{x+3}\right)^2 = 6^2$ Square both sides. $\qquad x + 3 = 36$ $\qquad$ Remove the radical on the left. $\qquad\qquad x = 33$ $\qquad\quad$ Solve. Check the answer: $\sqrt{33+3} = 6$ $\qquad\qquad\qquad\qquad \sqrt{36} = 6$ TRUE

1. $\sqrt{x+2} = 4$ _____

Show your work here.

2. $\sqrt{2x+2} = 2$ _____

Show your work here.

3. $\sqrt{4x-1} = 1$ _____

Show your work here.
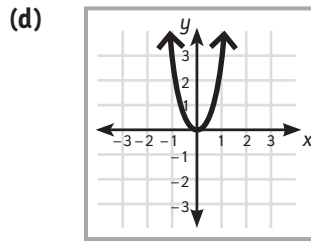
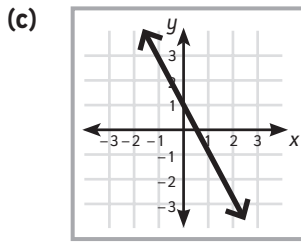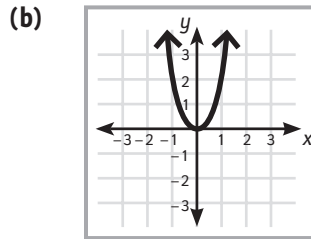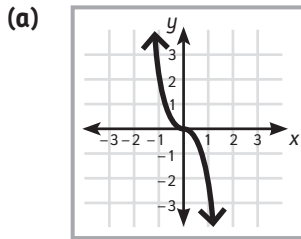**4.** $\sqrt{x-3} = 3$ _____

Show your work here.

5. $\sqrt{14+2} = x$ _____

Show your work here.

Name _____ Date _____

Problem-Solving Activity
Other Non-Linear Functions

Some problems have linear functions like $y = 2x + 1$. Write a sentence explaining your answer.

1. Circle the graph for this function $y = 3x^2$.

(a)

(b)

(c)

(d)

_____

_____

2. Circle the graph for this function $y = -2x^2$.

(a)

(b)

(c)

(d)

_____

_____