

Name _____ Date _____

**Skills Maintenance****Finding Square Roots****Activity 1**

Solve the square roots. Use your calculator to find the numbers that are not perfect squares. Round your answers to the nearest tenth. Remember to include the negative numbers.

1. $\sqrt{89}$ _____ and _____

2. $\sqrt{95}$ _____ and _____

3. $\sqrt{100}$ _____ and _____

4. $\sqrt{112}$ _____ and _____

5. $\sqrt{121}$ _____ and _____

6. $\sqrt{136}$ _____ and _____

7. $\sqrt{141}$ _____ and _____

8. $\sqrt{144}$ _____ and _____

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Problem-Solving Activity

The Direction of Non-Linear Functions

Create an x/y table for each of the functions. Remember to use the rules from PEMDAS. Solve the exponent before you multiply by the coefficient.

1. $y = \frac{1}{2}x^2$

x	y
-2	
-1	
0	
1	
2	

2. $y = -x^2$

x	y
-2	
-1	
0	
1	
2	

3. $y = -2x^2$

x	y
-2	
-1	
0	
1	
2	

4. $y = -2x^2 + 1$

x	y
-2	
-1	
0	
1	
2	

Name _____ Date _____



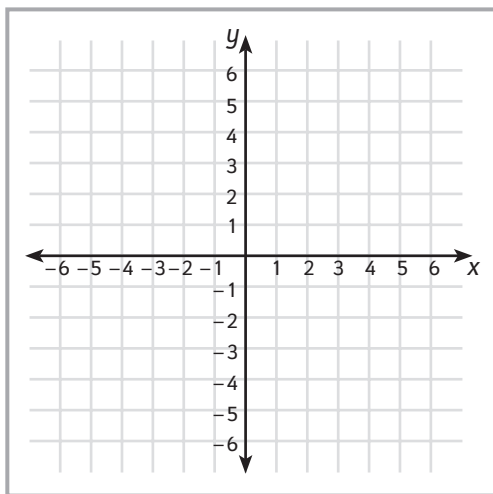
Problem-Solving Activity

The Direction of Non-Linear Functions

Create a table and graph for the functions $y = x^2$ and $y = -x^2$. After you create them, answer the questions about the two functions.

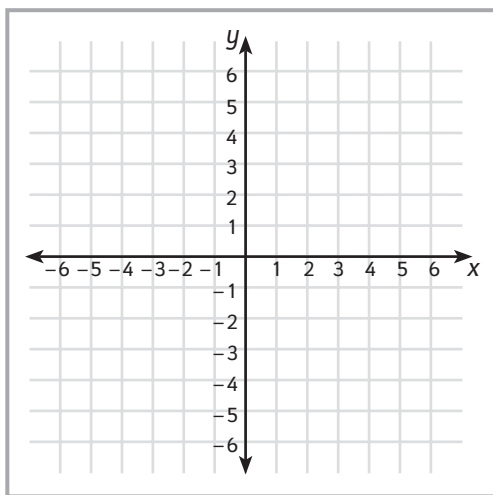
$y = x^2$

x	y
-3	
-2	
-1	
0	
1	
2	
3	



$y = -x^2$

x	y
-3	
-2	
-1	
0	
1	
2	
3	



Lesson 6 | Problem-Solving Activity

Name _____ Date _____

1. How do the tables differ for the two functions? Give examples.

2. How do the graphs differ for the two functions? Give examples.

3. Explain how the coefficient affects the tables and graphs of the functions.



Reinforce Understanding

Use the *mBook Study Guide* to review lesson concepts.