|  | Find the value of $3 x-2 x^{2}$ when $x=-3$. <br> A) -27 <br> B) -18 <br> C) 0 <br> D) 9 <br> A square-shaped playground has an area of 290 $\mathrm{ft}^{2}$. Approximately how long is one side of the playground? <br> A) 12 ft <br> B) 17 ft <br> C) 36 ft <br> D) 73 ft |
| :---: | :---: |
|  | Why is one of the square roots of any positive number less than zero? <br> A) because a negative number times a negative number is a positive number <br> B) because a negative number times a negative number is a negative number <br> C) because a negative number times a positive number is a negative number <br> D) because a negative number times a positive number is a positive number <br> Which of the following best represents $\sqrt{39}$ ? A number between... <br> A) 3 and 4 <br> B) 6 and 7 <br> C) 7 and 8 <br> D) 8 and 10 |
|  | A right triangle has legs 5 units and 8 units in length and hypotenuse $x$ units in length. <br> Part A <br> What is the exact value of $x$ ? Leave your answer in terms of a square root. <br> Between what two consecutive whole numbers is the value of $x$ ? Explain your answer. <br> Part B <br> The side length of another right triangle is $\sqrt{75}$ units. Determine the length of this side to the nearest tenth. Show your work and explain your answer. |

Sunil wants to find a side length of a cube with a volume of 27 cubic units. To find the length of one side, Sunil sets up the following equation: $s^{3}=27$. Which equation below shows the correct value of $s$ ?
A. $s=\sqrt{27}$
B. $s=\sqrt[3]{3}$
C. $s=3^{3}$
D. $s=\sqrt[3]{27}$

Which square root below is approximately equal to 2 ?
A. $\sqrt{3}$
B. $\sqrt{5}$
C. $\sqrt{7}$
D. $\sqrt{8}$

A planter box in the shape of a cube had a volume of 125 cubic inches. What was the length of one edge of the box?
A. 5 inches
B. 15 inches
C. 25 inches
D. 42 inches

Which statement best describes the value of $\sqrt{8}$ ?
A. The value of $\sqrt{8}$ is between 2 and 2.5 .
B. The value of $\sqrt{8}$ is between 2.5 and 3 .
C. The value of $\sqrt{8}$ is between 3 and 3.5.
D. The value of $\sqrt{8}$ is between 3.5 and 4 .

What is $\sqrt{7}$ approximated to the nearest hundredth?
A. 2.60
B. 2.64
C. 2.65
D. 3.50

Which equaton has both 4 and -4 as possible values of $y$ ?
A. $y^{2}=8$
B. $y^{3}=8$
C. $y^{2}=16$
D. $y^{3}=64$

A square garden has an area of 64 square meters. The equation below can be used to determine the length ( $x$ ), in meters, of each side of the garden.

$$
x^{2}=64
$$

Which expression represents the length of each side of the garden?
A. $\sqrt{64}$ meters
B. $64 \div 2$ meters
C. $64 \cdot 2$ meters
D. $64^{2}$ meters

