

MA90 Exercises for section 8.1**Numeric Response**

1. Find the root.

$$\sqrt{25}$$

If the root does not exist as a real number, write *not a real number*.

.

2. Find the root.

$$-\sqrt{64}$$

If the root does not exist as a real number, write *not a real number*.

.

3. Find the root.

$$-\sqrt[3]{-216}$$

If the root does not exist as a real number, write *no solution*.

.

4. Find the root.

$$-\sqrt[3]{27}$$

If the root does not exist as a real number, write *no solution*.

Short Answer

1. Find the root.

$$\sqrt{-16}$$

If the root does not exist as a real number, write *no solution*.

.

2. Assume all variables are positive, and find the root.

$$\sqrt{(p+q)^2}$$

.

3. Assume all variables are positive, and find the root.

$$\sqrt{81x^2y^2}$$

.

4. Assume the variable is positive, and find the root.

$$\sqrt[3]{216x^3}$$

.

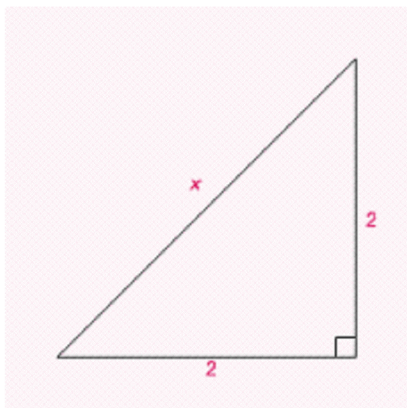
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5. Simplify the pair of expressions.

$$\frac{3 + \sqrt{81}}{2} \text{ and } \frac{3 - \sqrt{81}}{2}$$

6. Find x in the right triangle.



MA90 Exercises for section 8.1
Answer Section**NUMERIC RESPONSE**

1. ANS: 5
PTS: 1
2. ANS: -8
PTS: 1
3. ANS: 6
PTS: 1
4. ANS: -3
PTS: 1

SHORT ANSWER

1. ANS:
no solution
PTS: 1
2. ANS:
 $p + q$
PTS: 1
3. ANS:
 $9x \cdot y$
PTS: 1
4. ANS:
 $6x$
PTS: 1
5. ANS:
6, -3
PTS: 1
6. ANS:
 $2\sqrt{2}$
PTS: 1