

Solve by finding square roots.

$$3x^2 + 1 = 54$$

$$\begin{array}{r} -1 \quad -1 \\ \hline \end{array}$$

$$\frac{3x^2}{3} = \frac{53}{3}$$

$$x^2 = \frac{53}{3}$$

$$x = \sqrt{\frac{53}{3}}$$

$$x < \begin{array}{l} 4.2 \\ -4.2 \end{array}$$

A. This equation has 2 real solutions 4.2
and -4.2 because positive number under
√

~~B.~~ This equation has no real solutions
because _____

C. This equation has one real solution _____
because _____

Solve by finding square roots.

$$3x^2 - 75 = 0$$

$$\begin{array}{r} +75 \quad +75 \\ \hline \end{array}$$

$$\frac{3x^2}{3} = \frac{75}{3}$$

$$x^2 = 25$$

$$x = \sqrt{25} < \begin{array}{l} 5 \\ -5 \end{array}$$

A. This equation has 2 real solutions 5
and -5 because positive under √

B. This equation has no real solutions
because _____

C. This equation has one real solution _____
because _____

Solve by finding square roots.

$$3x^2 - x^2 = 10$$

Combine like terms
1st

$$\frac{2x^2}{2} = \frac{10}{2}$$

$$x^2 = 5$$

$$x = \sqrt{5} < \begin{array}{l} x = 2.24 \\ x = -2.24 \end{array}$$

Choose the best answer and fill in the blanks:

A. This equation has 2 real solutions 2.24
and -2.24 because positive under √

B. This equation has no real solutions
because _____

C. This equation has one real solution _____
because _____

Solve by finding square roots.

$$2x^2 - 10 = -4$$

$$\begin{array}{r} +10 \quad +10 \\ \hline \end{array}$$

$$\frac{2x^2}{2} = \frac{6}{2}$$

$$x^2 = 3$$

$$x = \sqrt{3} < \begin{array}{l} 1.73 \\ -1.73 \end{array}$$

Choose the best answer and fill in the blanks:

A. This equation has 2 real solutions 1.73
and -1.73 because positive under √

B. This equation has no real solutions
because _____

C. This equation has one real solution _____
because _____

Solve by finding square roots.

$$\begin{array}{r}
 x^2 + 16 = 0 \\
 -16 \quad -16 \\
 \hline
 x^2 = -16 \\
 x = \sqrt{-16}
 \end{array}$$

Choose the best answer and fill in the blanks:

A. This equation has 2 real solutions _____ and _____ because _____

B. This equation has no real solutions because We have a negative number under the $\sqrt{\quad}$

C. This equation has one real solution _____ because _____

Solve by finding square roots.

$$\begin{array}{r}
 x^2 = 80 \\
 x = \sqrt{80} < \begin{array}{l} 8.94 \\ -8.94 \end{array}
 \end{array}$$

Choose the best answer and fill in the blanks:

A. This equation has 2 real solutions 8.94 and -8.94 because 80 is positive

B. This equation has no real solutions because _____

C. This equation has one real solution _____ because _____

Solve by finding square roots.

$$\begin{array}{r}
 4x^2 + 9 = 41 \\
 -9 \quad -9 \\
 \hline
 4x^2 = 32 \\
 \frac{4x^2}{4} = \frac{32}{4}
 \end{array}
 \quad
 \begin{array}{r}
 x^2 = 8 \\
 x = \sqrt{8} < \begin{array}{l} 2.82 \\ -2.82 \end{array}
 \end{array}$$

Choose the best answer and fill in the blanks:

A. This equation has 2 real solutions 2.82 and -2.82 because 8 is positive

B. This equation has no real solutions because _____

C. This equation has one real solution _____ because _____

Solve by finding square roots.

$$\begin{array}{r}
 4x^2 + 6 = 7 \\
 -6 \quad -6 \\
 \hline
 4x^2 = 1 \\
 x^2 = \frac{1}{4} < \begin{array}{l} -\frac{1}{2} \\ \frac{1}{2} \end{array} \\
 x = \sqrt{\frac{1}{4}}
 \end{array}$$

Choose the best answer and fill in the blanks:

A. This equation has 2 real solutions $\frac{1}{2}$ and $-\frac{1}{2}$ because $\frac{1}{4}$ is positive

B. This equation has no real solutions because _____

C. This equation has one real solution _____ because _____