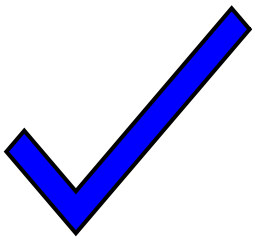
Answer:

$3, 6$

QUESTION: Solve the equation using square roots.

$$3x^2 + 76 = -8$$

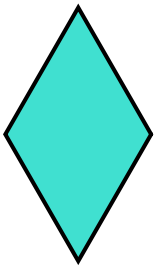


Answer:

$$\pm 2i\sqrt{7}$$

QUESTION: Simplify.

$$\sqrt{-125}$$

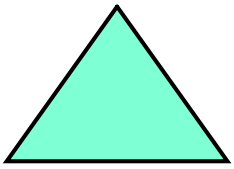


Answer:

$5i\sqrt{5}$

QUESTION:

You are solving a quadratic equation.
There is only one real solution, so the discriminant must be _____.

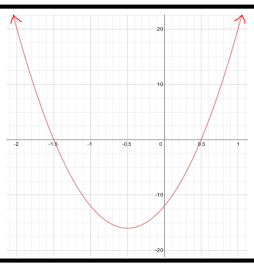


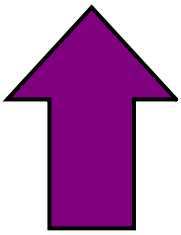
Answer:

0

QUESTION:

How many solutions does this function have?





Answer:

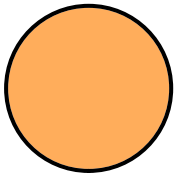
2

QUESTION:

Calculate the discriminant to the equation

$$f(x) = 2x^2 - x + 12$$

Answer:



-95

QUESTION:

Simplify and rewrite in radical form.

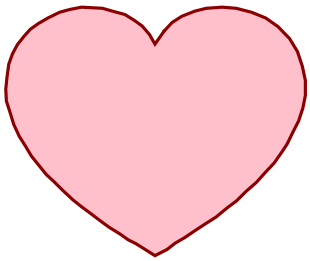
$$\frac{x^4}{x^{\frac{2}{3}}}$$

Answer:

$$\sqrt[3]{x^{10}}$$

QUESTION: Solve.

$$|8-2x|+4=20$$

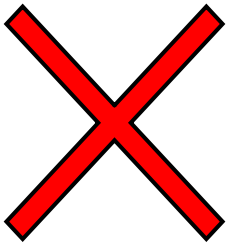


Answer:

$$-4, 12$$

QUESTION:

Kali invested $2500 in a savings account for 3 years. Her investment is modeled by $s(r)=2500(1+r)^3$, where *r* is the annual interest rate written as a decimal and *s* is the total of her savings. What interest rate will she need if the value of her investment is to grow to $8000?

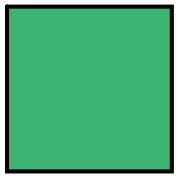


Answer:

0.47

QUESTION: Will the sign on $5x$ be positive or negative?

$$(2x^3+4)-(3x^2-5x+2)=2x^3-3x^2+5x+2$$

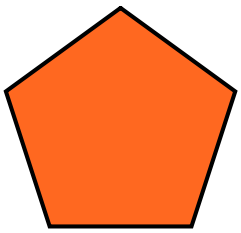


Answer:

Positive

QUESTION: Solve.

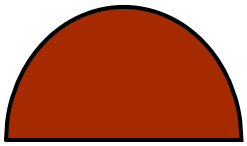
$$9x^{\frac{3}{2}}=72$$



Answer:

4

QUESTION:
If the solutions to a quadratic equation are complex, then the discriminant must be _____



Answer:

Negative

QUESTION: Solve.

$$x^2 = 9x - 18$$