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Quadratic Equation Worksheets

1) Find the roots of the given quadratic equations.

$$x^2 - x - 12 = 0$$

2) Find the nature of the roots for the quadratic equation:

$$y^2 - \frac{5}{4}y + 2 = 0$$

3) Use the quadratic formula to find the Discriminant of the following quadratic equation:

$$n^2 = 64$$

4) Using the quadratic formula find the roots for the given quadratic equation:

$$p^2 = -24p$$

5) Find the Discriminant:

$$5s + 2s^2 = 7$$

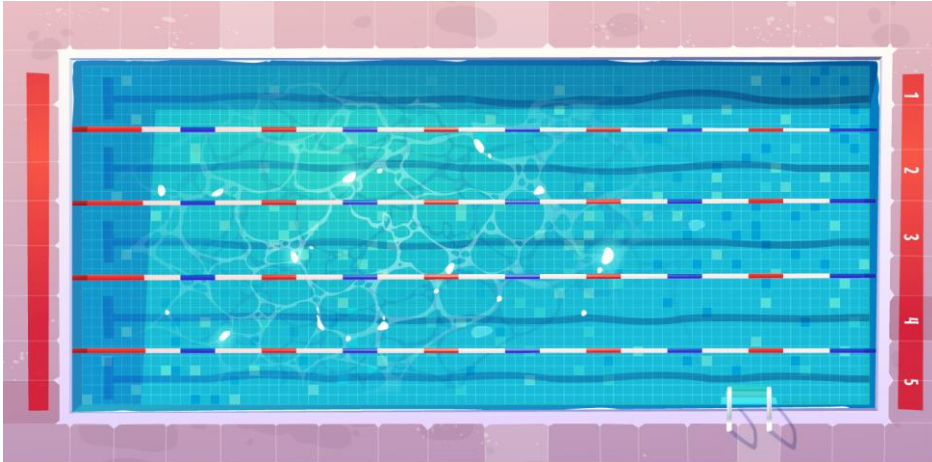
6) Find the sum of the roots for the following quadratic equation using the quadratic formula.

$$x^2 - 13x + 4 = 0$$

7) For what value of m , will the given quadratic equation have equal roots?

$$x^2 + 1 = mx$$

- 8) The length of a rectangular swimming pool is 7 feet more than twice its width. Find the dimensions of the pool, if its area is 270 square feet.



- 9) A rectangular gift box has a square base. The length of the base is 12 units more than its height. The volume of the box is 400 times its height. Find its dimensions.



- 10) The length of a theatre's screen is 7 ft more than twice its width. Find the dimensions of the screen if its area is 184 square feet.

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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

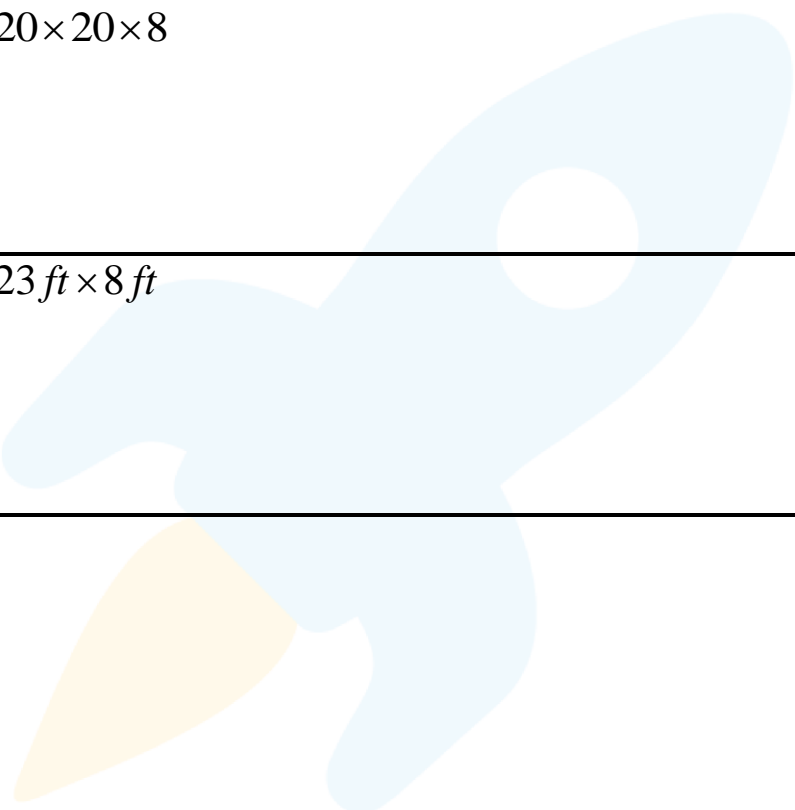
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**ANSWERS**

1)	4, -3
2)	Roots are imaginary
3)	256
4)	0, -24
5)	81
6)	13

7)	-2
8)	$27\text{ ft} \times 10\text{ ft}$
9)	$20 \times 20 \times 8$
10)	$23\text{ ft} \times 8\text{ ft}$



FUN FACT

1. The general form of a quadratic equation is given as,

$$ax^2 + bx + c = 0$$

2. a, b, c are real numbers, where b and c can have any value but $a \neq 0$.
3. The degree of a quadratic polynomial is always 2.

