

THE QUADRATIC FORMULA – PRACTICE QUESTIONS
CALCULATOR ALLOWED



metatutor

1.

Solve $x^2 + 7x - 11 = 0$, giving your answers to 2 decimal places.

2.

Solve $2x^2 + 5x - 4 = 0$, giving your answers to 3 decimal places.

3.

Solve $3x^2 + 8x - 5 = 0$, giving your answers to 3 significant figures.

4.

Solve $2x^2 - 9x + 8 = 0$, giving your answers to 3 decimal places.

5.

Solve $3x^2 - 5x - 10 = 0$, giving your answers to 3 decimal places.

6.

Solve $4x^2 - 6x - 13 = 0$, giving your answers to 4 significant figures.

7.

Solve $5x^2 + 4x + 5 = 16$, giving your answers to 4 significant figures.

8.

Solve $3x^2 - 12x + 20 = 15 - 2x$, giving your answers to 4 significant figures.

9.

Solve $5x^2 + 13x - 6 = 3x^2 + 6x + 6$, giving your answers to 4 significant figures.

10.

Solve $3x^2 - 10x = 15$, giving your answers to 4 significant figures.

11.

Solve $4x^2 + 2 = 7x$, giving your answers to 4 significant figures.

12.

Solve $x^2 = 19 - 10x$, giving your answers to 4 significant figures.

13.

Solve $\frac{3}{y} + 8 - y = 0$, giving your answers to 3 significant figures.

14.

Solve $\frac{z^2-6}{z} = 9$, giving your answers to 3 significant figures.

15.

Solve $\frac{3t^2-10t+7}{t} = t + 10$, giving your answers to 4 significant figures.

16.

Without using a calculator, use the quadratic formula to find x in the form $\sqrt{a} + b$.

$$x^2 + 6x + 7 = 0$$

17.

Without using a calculator, use the quadratic formula to find r in the form $a\sqrt{b} + c$.

$$r^2 - 10r + 7 = 0$$