

Name: _____

Exam Style Questions

Quadratic Formula



Corbettmαths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

Secondary

Video 267



1. Write down the quadratic formula.

x =
(1)

2. Solve the equation $x^2 + 5x + 1 = 0$

Give your answers to one decimal place.

x = Or x =
(3)

3. Solve the equation $2x^2 + 6x + 1 = 0$

Give your answers to two decimal places.

x = Or x =
(3)

4. Solve the equation $4x^2 + x - 7 = 0$

Give your answers to two decimal places.

x = or x =
(3)

5. Solve the equation $x^2 - 2x - 9 = 0$

Give your answers to two decimal places.

x = or x =
(3)

6. Solve the quadratic equation $7x^2 - 25x + 2 = 0$

Give your answers to two decimal places.

.....
(3)

7. Solve the equation $3x^2 + 10x + 5 = 7$

Give your answers to two decimal places.

.....
(3)

8. Solve the equation $11x^2 = 7 - 2x$

Give your answers to two decimal places.

.....
(3)

9. Solve the equation $12x^2 - 13x + 4 = 13x^2 - 5x + 1$

Give your answers to one decimal place.

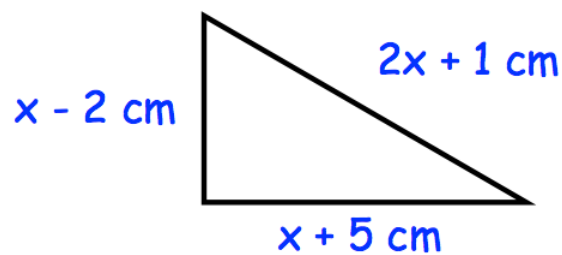
.....
(3)

10. A rectangular field is 15m longer than it is wide.
The area of the field is 800m^2

Work out the length of the field.
Give your answer to 1 decimal place.

.....m
(4)

11.



Shown is a right angled triangle.

- (a) Show that $x^2 - x - 14 = 0$

(3)

- (b) Find x .

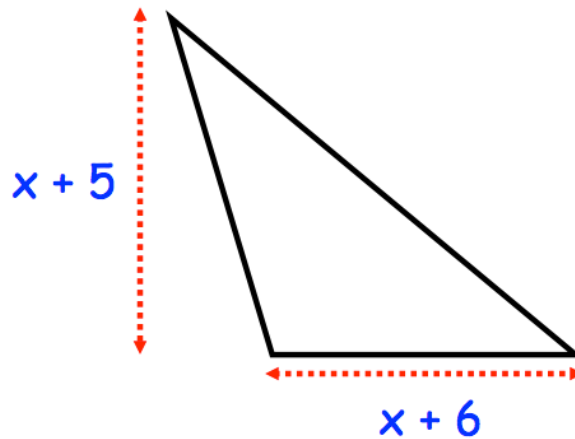
.....cm
(3)

12. Solve, giving your answers to two decimal places.

$$\frac{7}{m+9} = m + 10$$

m = or m =
(3)

13. Shown is a triangle with area 19cm^2 .



Find the value of x

.....
(4)