

24th Dec



Corbettmaths

Express

$$\sqrt{8} + \sqrt{50}$$

in the form $a\sqrt{2}$, where a is an integer.

The line AB has equation

$$5x - 4y - 7 = 0$$

The line AC is perpendicular to AB.

The point C lies on AC and lies on the x-axis. Find the coordinates of C

The equation

$$x^2 + (k + 4)x + (4k + 1) = 0$$

has no real roots.

Find the possible range of values of k

Express $x^2 - 4x + 8$ in the form $(x - a)^2 + b$

where a and b are integers to be found

Find the coordinates of the minimum point of the curve

$$y = x^2 - 4x + 8$$