

13th May

Corbettmaths

Write

$$\frac{17\sqrt{3} + 5\sqrt{5}}{2\sqrt{3} + \sqrt{5}}$$

in the form $a + b\sqrt{15}$ Angle θ is obtuse and $\cos\theta = -\frac{5}{13}$ Work out the value of $\sin\theta$

Solve the inequality

$$3x^2 + 8x - 3 \leq 0$$

Given A(2, 4) B(10, 0) and C(3, 6)

Find the area of triangle ABC.

 $(2x - 1)$ is a factor of
 $2x^3 + 9x^2 - 53x + a$ Work out the value of a