

**13th May**

Corbettmaths

Write

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

in the form  $a + b\sqrt{15}$ Angle  $\theta$  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  
 $x^3 - 4x^2 + 5x + a$ Work out the value of  $a$