

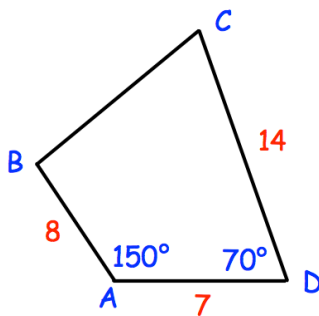
12th January

Corbettmaths

Solve the simultaneous equations

$$x = 3y + 6$$

$$3xy = 24 - x$$

Write $x^2 + 8x + 17$ in the form $(x + a)^2 + b$ Find the coordinates of the turning point of $y = x^2 + 8x + 17$ 

Calculate the length BC.

There are x apples in a crate.
4 of the apples are bad.Fiona chooses two apples from the
crate, without replacement.
The probability she selects two bad
apples is $\frac{1}{11}$ Prove $x^2 - x - 132 = 0$ Find x , the number of apples in the
crate.