

4th February

Corbettmaths

Write

$$(\sqrt{2} + \sqrt{6})^2$$

in the form

$$a + b\sqrt{3}$$

Make c the subject of

$$x = \frac{y^2 + c}{y - c}$$

Find the n th term of the sequence

12 14 18 24 32 ...

Helicopter A and Helicopter B both take off from the same location. Helicopter A flies 8 miles on a bearing of 172° . Helicopter B flies 13.2 miles on a bearing of 097° .

How far is helicopter A from helicopter B?

Find the minimum point of the graph
 $y = x^2 - 9x - 20$