



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  $172^\circ$ .  
Helicopter B flies 13.2 miles on a bearing of  $097^\circ$ .

How far is helicopter A from helicopter B?

Find the minimum point of the graph

$$y = x^2 - 9x - 20$$