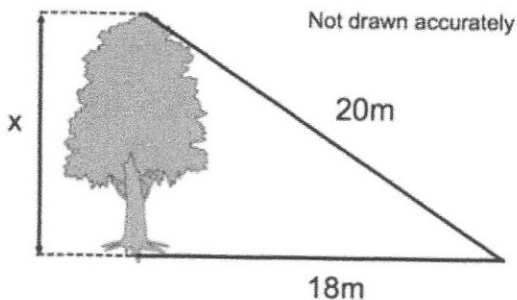




Factorise

$$64 - x^2 \quad (8 - x)(8 + x)$$



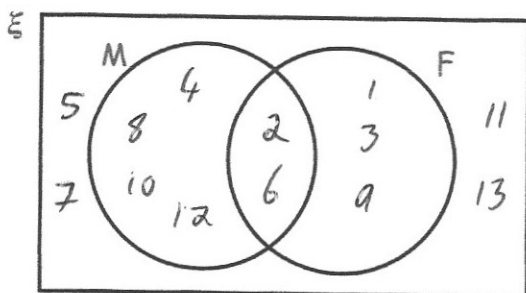
How tall is the tree?

$$\begin{aligned} x^2 + 18^2 &= 20^2 \\ x^2 + 324 &= 400 \\ x^2 &= 76 \\ x &= 8.7178m \end{aligned}$$

Below are the first two terms of a geometric sequence.

5 10 20 40 80

Find the next three terms



$$\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13\}$$

M = Multiples of 2 2, 4, 6, 8, 10, 12
 F = Factors of 18 1, 2, 3, 6, 9, ~~18~~

Complete the Venn diagram

A number is chosen at random

Find $P(M \cup F)$

$$\frac{9}{13}$$

A number is chosen at random

Find $P(M \cap F)$

$$\frac{2}{13}$$