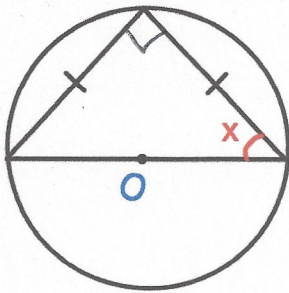


11th September



Corbettmaths



Find x

$$45^\circ$$

Arrange in order, smallest to largest

$$25^{\frac{1}{2}}, 8^{\frac{2}{3}}, 27^{\frac{1}{3}}$$

5 4 3

$$27^{\frac{1}{3}}, 8^{\frac{2}{3}}, 25^{\frac{1}{2}}$$

A plant was 30cm tall when bought. This type of plant grows 22% each year.

How many years will it take the plant to grow to at least 2 metres?

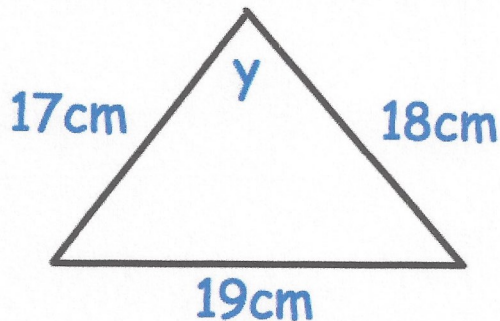
10 years

$$30 \times 1.22^x$$

9 years 179.62
10 year 219.13

Find the equation of the line perpendicular to $y = -2x + 3$ that passes through $(1, 10)$

$$y = \frac{1}{2}x + 9\frac{1}{2}$$



Find y.

$$\cos y = \frac{17^2 + 18^2 - 19^2}{2 \times 17 \times 18}$$

$$y = 65.68^\circ$$