Name: _____ 5-a-day Higher

10th June

Corbettmaths

Simplify $\sqrt{98}$

$\sqrt{49} \times \sqrt{2}$

$7\sqrt{2}$

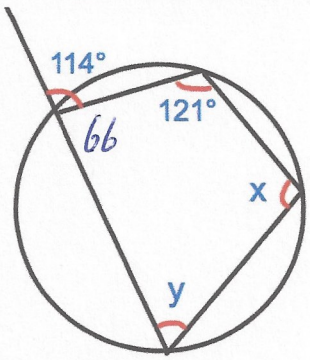
$(x+4)^2 \equiv x^2 + 8x + 16$

$(x+4)^2$

$(x+4)^2 < 10$

$(x+4)^2 = x - 3$

Circle the identity



Find x and y

$z = 180 - 66 = 114°$

$y = 180 - 121 = 59°$

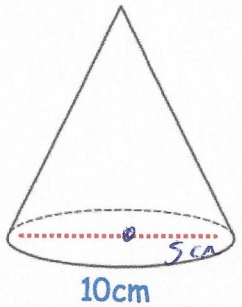
A cube has the same volume as the cone. Calculate the side length of the cube.

$V = \frac{1}{3} \times \pi \times r^2 \times h$

$= \frac{1}{3} \times \pi \times 5^2 \times 12$

$= 100\pi \text{ cm}^3$

$= 314.159...$



$\sqrt[3]{314.159...}$

6.798cm

Evaluate

$10000^{3/4}$

$\sqrt[4]{10000} = 10$

$10^3 = 1000$