

6th March



Corbettmaths

Define a "continuous variable"

A variable that can take any value on a given scale.
e.g. height, time etc

Factorise $x^2 - 11x + 30$

$$(x-5)(x-6)$$

Factorise $x^2 - 2x - 63$

$$(x-9)(x+7)$$

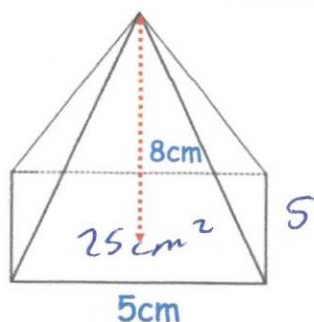
Solve these simultaneous equations

$$\begin{aligned} 5x - 2y &= 24 & \times 3 \\ 4x + 3y &= 10 & \times 2 \\ \hline 15x - 6y &= 72 \\ \text{Add } 8x + 6y &= 20 \\ \hline 23x &= 92 \\ x &= 4 \end{aligned}$$

$$\begin{aligned} 23x &= 92 \\ x &= 4 \\ 20 - 2y &= 24 \\ -2y &= 4 \\ y &= -2 \end{aligned}$$

check
 $16 + -6 = 10 \checkmark$

$$\begin{aligned} x &= 4 \\ y &= -2 \end{aligned}$$



$$V = \frac{1}{3}Ah$$

Find the volume of the square based pyramid

$$\begin{aligned} V &= \frac{1}{3} \times 25 \times 8 \\ &= 66.6 \text{ cm}^3 \end{aligned}$$

Write down the exact value of $\sin 30^\circ$

$$\frac{1}{2}$$

Write down the exact value of $\cos 30^\circ$

$$\frac{\sqrt{3}}{2}$$