

9th April

Foundation Plus 5-a-day



Corbettmaths

Solve using simultaneous equations.

$$5x + 3y = 41$$

$$2x + 3y = 20 \quad \text{sub}$$

$$\hline 3x = 21$$

$$x = 7$$

$$35 + 3y = 41$$

$$3y = 6$$

$$y = 2$$

$$x = 7,$$

$$y = 2$$

Factorise  $y^2 - 36$

$$(y - 6)(y + 6)$$

The  $n$ th term of a sequence is  $6n - 4$   
 2 8 14 20 26 32 38 44 50

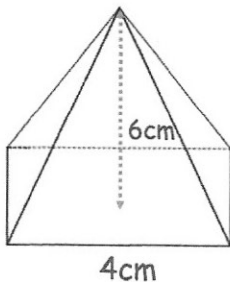
The  $n$ th term of another sequence is  $10n + 2$

12, 22, 32, 42, 52, 62, 72, 82, 92

Find the numbers, less than 100, that are in both sequences

→ 56 62 68 74 80 86 92 98

32, 62, 92



$$V = \frac{1}{3} A h$$

$$= \frac{1}{3} (4 \times 4) \times 6$$

$$= 32 \text{ cm}^3$$

Find the volume of the square based pyramid

A car was bought for £10000.  
 Its value depreciated by 20% each year for the first three years.

What was its value at the end of the three years?

$$1^{\text{st}} - £8000$$

$$2^{\text{nd}} - £6400$$

$$3^{\text{rd}} - £5120$$