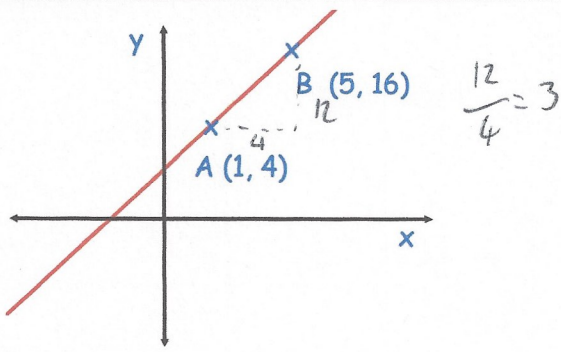


26th October



Corbettmaths



Find the equation of the line parallel to AB that passes through (1, 7)

$$y = 3x + 4$$

A straight line passes through the points A(1, 4) and B(5, 16).

Write down the equation of a line perpendicular to AB

$$y = -\frac{1}{3}x + 20$$

Factorise fully  $2y^2 - 50$

$$2(y^2 - 25)$$

$$2(y - 5)(y + 5)$$

Harry gets the train to work in the morning.  
He works Monday to Friday.  
The probability the train is late is 0.3

Find the probability the train is late exactly three times.

- LLL00
- LL00L
- LL0LO
- L0LLO
- LOLOL
- L0OLL
- 0LLLO
- 0LL0L
- 00LLL
- 0L0LL

10 options

$$0.3 \times 0.3 \times 0.3 \times 0.7 \times 0.7 = 0.01323$$

$$0.01323 \times 10 = 0.1323$$

Two containers are mathematically similar.

The height of container A is 5cm.  
The height of container B is 15cm  $\times 3$

The volume of A is  $120\text{cm}^3$

What is the volume of B?

$$120 \times 3^3 = 3240\text{cm}^3$$