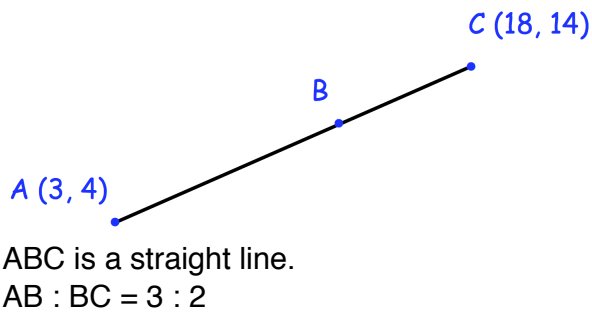


**1st January**

Corbettmaths



Work out the coordinates of the point B

$$f(x) = 5 - 2x \quad \text{for } -1 \leq x \leq 8$$

Work out the range of  $f(x)$ 

$$y = 2x^3 - 3x^2 + x$$

Work out the value of  $\frac{d^2y}{dx^2}$  when  
 $x = 2$

Two ships, A and B, leave a port at midday.

Ship A travelled on a bearing of  $025^\circ$  at a speed of 12km/h

Ship B travelled on a bearing of  $117^\circ$  at a speed of 54km/h

What is the bearing of ship A from ship B at 15:00?