

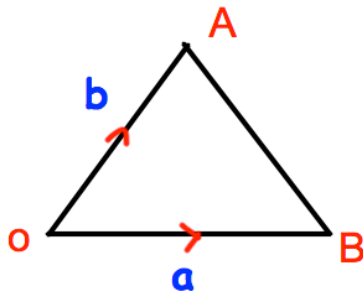
10th April



Corbettmaths

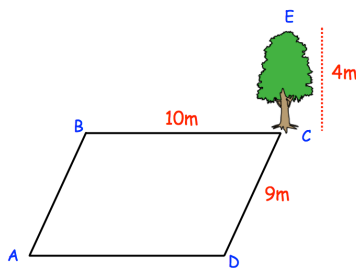
$y$  is inversely proportional to the cube of  $x$ . If  $y = 4$ ,  $x = 2$ .

Find  $y$  when  $x = 1$ .



What is the vector  $AB$ ?

A tree is located in the corner of a rectangular field.



Calculate the distance  $AE$

Simplify

$$\frac{x^2 + 10x + 24}{x^2 - 36}$$

Mrs Jenkins is making decorations for a wedding.  
She needs  $19\sqrt{5}$  metres of ribbon in total.  
Mrs Jenkins has 40 metres of ribbon.  
Does she have enough ribbon?

