

**7th September**

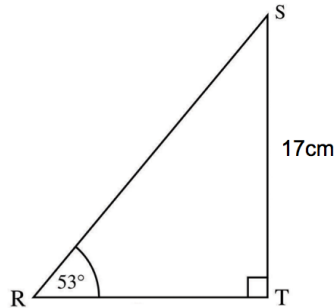
Corbettmaths

The point A has coordinates  $(-12, -7)$  and the point B has coordinates  $(-8, 1)$

Find the equation of the line parallel to AB and passing through  $(2, 5)$

Angle SRT is  $53^\circ$ , to the nearest degree. ST is 17cm to the nearest centimetre.

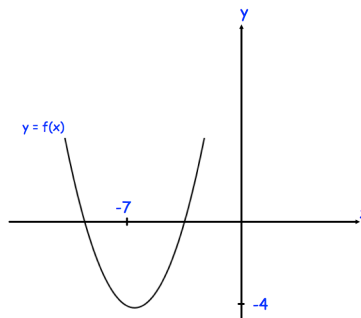
Work out the upper bound for the length of RS.



$y = f(x)$  has a minimum point at  $(-7, -4)$ .

The graph of  $y = f(x) + a$  has a minimum point at  $(-7, 0)$ , where  $a$  is a constant.

Write down the value of  $a$ .



Make  $y$  the subject of

$$\frac{8}{x} = \frac{3}{y} + \frac{2}{5}$$

Sketch  $x^2 + y^2 = 9$

