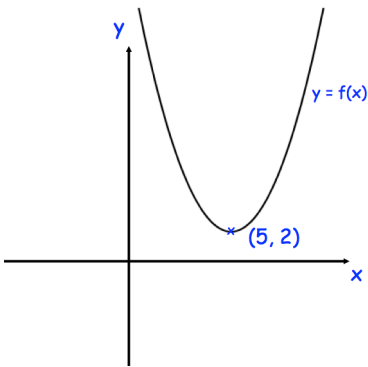




A cuboid has length  $(x + 9)$ cm, width  $(x + 2)$ cm and height 5cm. The surface area of the cuboid is  $400\text{cm}^2$ .

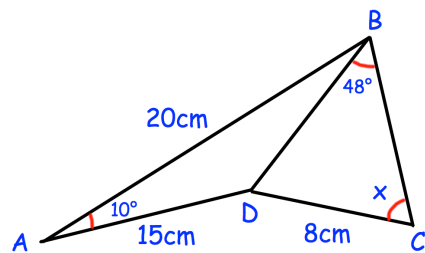
Find the value of  $x$  to 1 decimal place.



Which transformation will have a minimum point of  $(-5, 2)$ ?

Shown is the curve with equation  $y = f(x)$   
The coordinates of the minimum point of the curve are  $(5, 2)$ .

Which transformation will have a minimum point of  $(8, 2)$ ?



$AB = 20\text{cm}$     $AD = 15\text{cm}$     $CD = 8\text{cm}$   
 $\angle DAB = 10^\circ$     $\angle DBC = 48^\circ$

Find  $x$

$$w = \frac{\sqrt{c}}{p}$$

$c = 4.24$  correct to 2 decimal places  
 $p = 7.88$  correct to 3 decimal places

By considering bounds, work out the value of  $w$  to a suitable degree of accuracy.