

13th April



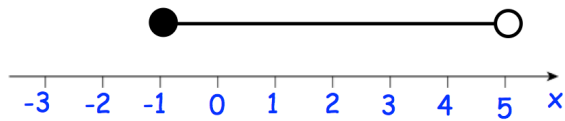
Corbettmaths

Factorise

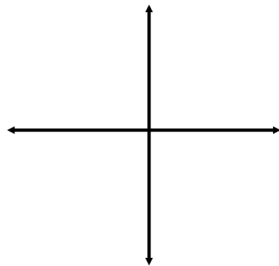
$$x^2 + 3x - 10$$

Factorise

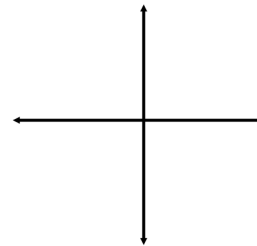
$$x^2 - 3x - 4$$



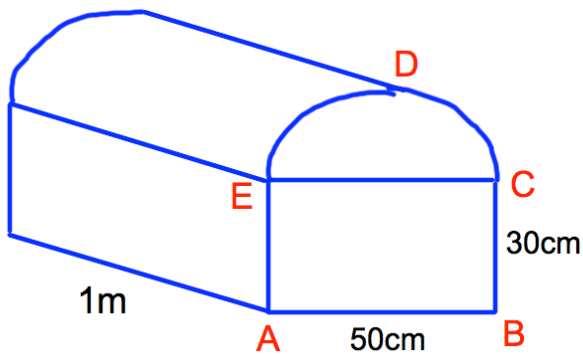
Write the inequality shown



Sketch  $y = x^3$



Sketch  $y = \frac{1}{x}$  where  $x \neq 0$



Shown above is a prism that is 1m long.

ABCDE is the cross-section of the prism.  
 ABCE is a rectangle and CDE is a semi-circle.

Calculate the volume of the prism.  
 Give your answer correct to 1 decimal place.