

1.

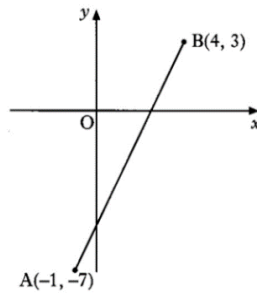
Factorise

$$x^2 + 2x - 15$$

**2**

2.

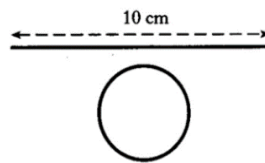
Find the equation of the line below.



**3**

3.

A piece of gold wire 10 centimetres long is made into a circle.

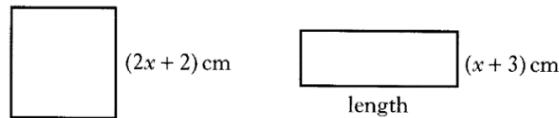


The circumference of the circle is equal to the length of the wire.  
 Show that the area of the circle is **exactly**  $\frac{25}{\pi}$  square centimetres.

**4**

4.

The square and rectangle shown below have the same perimeter.



Show that the length of the rectangle is  $(3x + 1)$  centimetres.

**2**

5.

Two functions are given below.

$$f(x) = x^2 + 2x - 1$$

$$g(x) = 5x + 3$$

Find the values of  $x$  for which  $f(x) = g(x)$ .

**3**