

FACTORISE:

1.  $16x^2 - 1$
2.  $2x^2 - 5x - 3$

SOLVE:

3.  $2x^2 - 11x + 4 = 0$  GIVE YOUR ANSWER CORRECT TO 2 DECIMAL PLACES
4.  $-6 - 2x + x^2 = 0$  GIVE YOUR ANSWER IN SURD FORM

FORM THE QUADRATIC EQUATION WHOSE ROOTS ARE

5.  $-\frac{1}{2}, 5$

6. Two numbers have a sum of 13. If one number is  $x$ , what is the other number?

If the sum of their squares is 89, find the two numbers

7. A rug is to fit a room so that there is an equal border on all sides.

If the room is 9m by 25 m and the area of the rug is  $57\text{m}^2$ .

How wide will the border be?

