



National 5

Home Ex 6

1. $f(x) = 4 - 2x^2$,

- Evaluate $f(-3)$
- Given that $f(a) = 2$, find a

2. Solve $5 - x > 2(x + 1)$

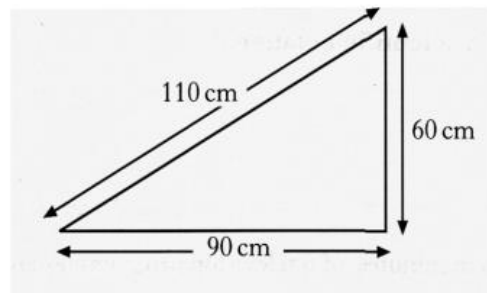
3. Simplify $\sqrt{m(2m + m^2)}$

4. Find the equation of the line passing through $(3, -2)$ and parallel to $2y - 4x + 3 = 0$.

5.

A triangular paving slab has measurements as shown. Is the slab in the shape of a right angled triangle?

Show your working.



6. A new fraction is obtained by adding x to the numerator and denominator of the fraction $17/24$. The new fraction is equivalent to $2/3$. Find the value of x .

7. ST , a vertical pole 2 metres high, is situated at the corner of a rectangular garden, $PQRS$. RS is 8 metres long and QR is 12 metres long.

The pole casts a shadow over the garden. The shadow reaches M , the midpoint of QR . Calculate the size of the shaded angle TMS .

