Round all answers to an appropriate degree of accuracy unless specifically stated
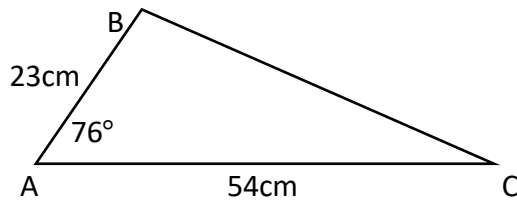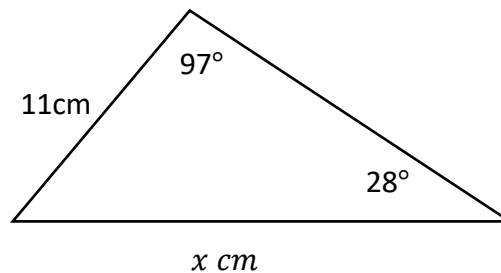
1. Work out the area of the triangle shown below

    B

    23cm

    76°

    A   54cm   C

2. Solve this system of equations

    $$4x - 3y = 24$$
    $$2x + 5x = -14$$

3a. A function has equation $f(x) = x^2 + 6x - 11$. Write this in the form $(x + a)^2 + b$

3b. Write down the coordinates of the turning point and the equation of its axis of symmetry.

4. Work out x in the triangle below

    97°

    11cm

    28°

    x cm

5. Solve

    $$2(3x - 8) \geq 4(3x + 5)$$

6. A function has equation $f(x) = 4x - 3$
    If $f(p) = 21$, find the value of p.