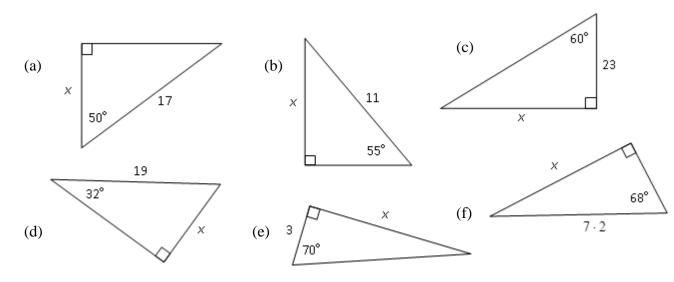
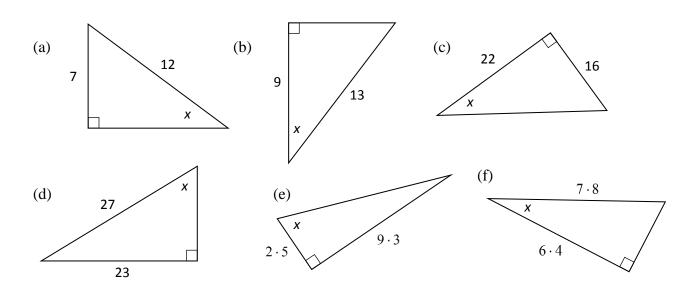
National 4 Mathematics: Homework 11

§ 1 Trigonometry

1 Calculate the length of the side marked x in each triangle below.



Find the size of angle x in each diagram.



National 4 Mathematics: Homework 11

§ 2 Change the Subject of the Formula

1 Change the subject of the formula to k.

$$T = kx - s$$

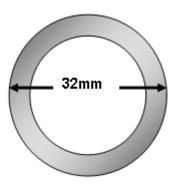
2 Change the subject of the formula to h.

$$S = \frac{rh}{m}$$

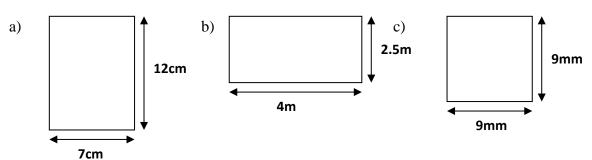
§ 3 Mixed

- A two pound coin is made up of a silver coin of diameter 22mm surrounded by a gold coloured ring. The diameter of the whole coin is 32mm.

 Calculate (a) the circumference of the whole coin
 - (b) the area of the whole coin
 - (c) the area of the silver part of the coin
 - (d) the area of the gold part of the coin.



2 Calculate the perimeter and area of the following shapes.



- **3** Solve the following equations
 - (a) 7x 8 = 6

- (b) 9w 4 = 4w + 11
- (c) 8b + 4 = 5b + 37
- (d) 9(x-3) = 18