Properties of Triangles
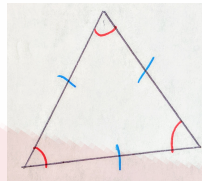
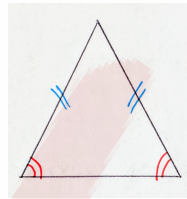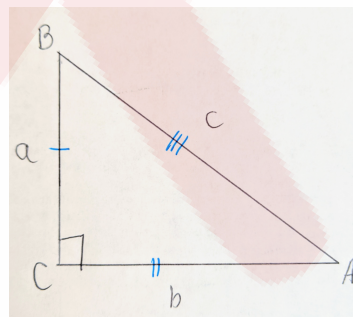## Properties of Triangle

1. The angles in a triangle add up to 180°.

2. All the angles of an *equilateral triangle* are equal. All sides of an equilateral triangle are the same length.

3. Two angles in an *isosceles triangle* are equal. Two sides are the same length in an isosceles triangle.
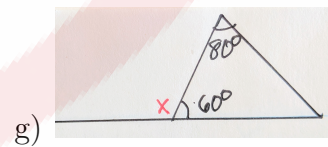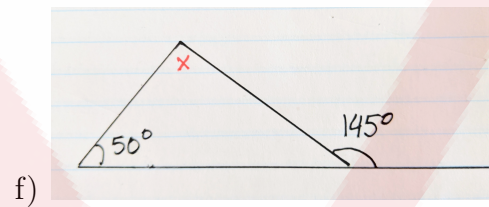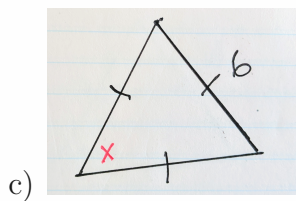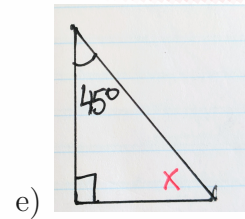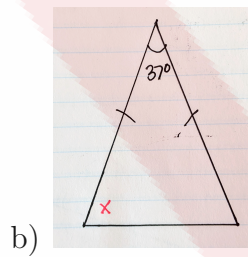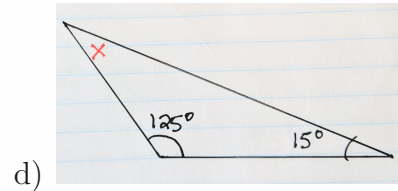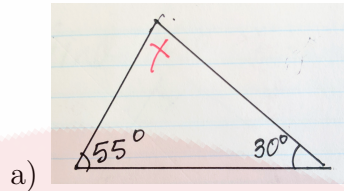

4. Given a *right angle triangle*, the side oppossite the right angle is called the *hypotenuse*.

5. **Theorem of Pythagorus** Given a right angled triangle and side lengths we have the following relationship between the sides lengths.

$$c^2 = a^2 + b^2$$

Exercises

1. Find the missing angle, x.

a)

b)

c)

d)

e)

f)

g)

2. Find the unknown side.

a)

c)

b)

d)