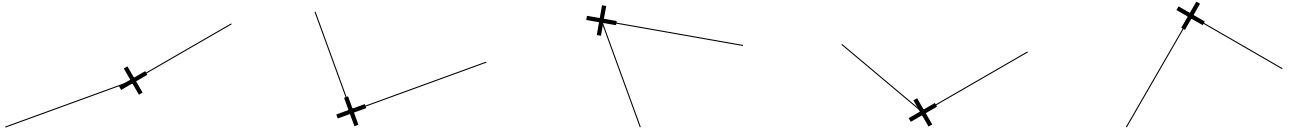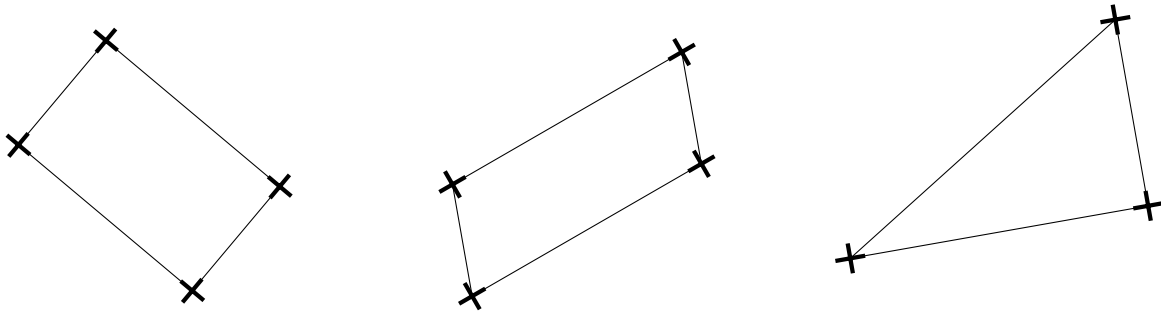1. (i) Complete the teacher's Top Tips:

   - a + sign drawn correctly can help you decide, if an angle is a right angle

   - a right angle = ... degrees

   (ii) Draw the right angle symbol on **all** the right angles shown below.
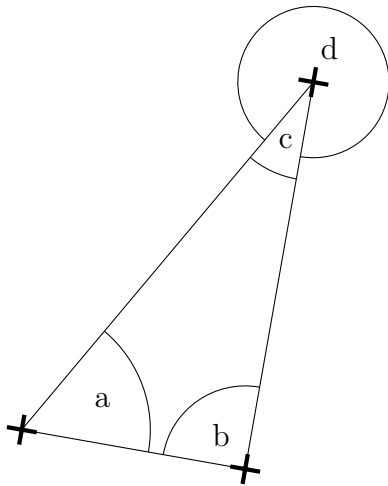
   or Draw the right angle symbol on **all** the right angles in the shape below.

2. Write down the type of angles a, b, c and d.

   You may use the + signs to help decide if the type of angle is acute, right, obtuse or reflex.
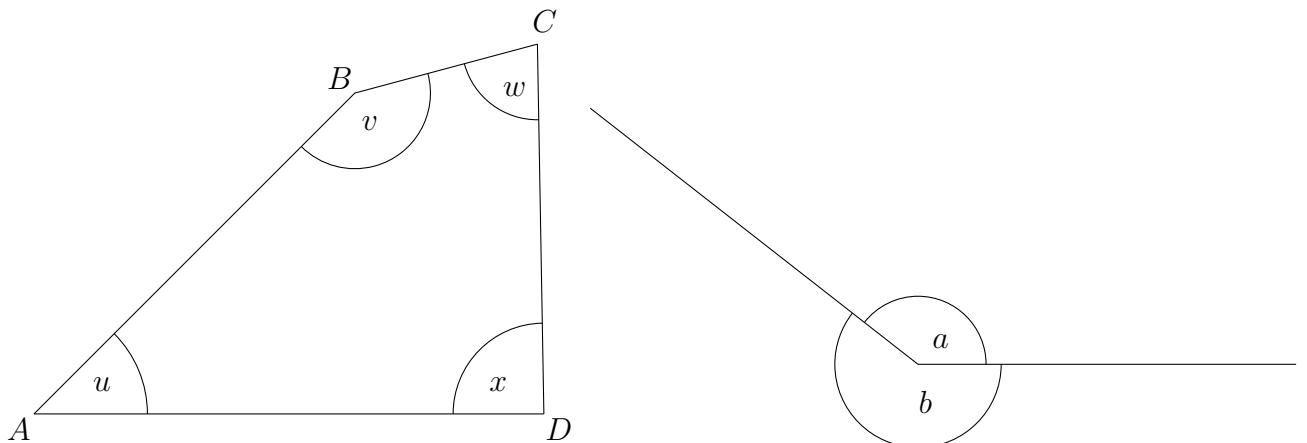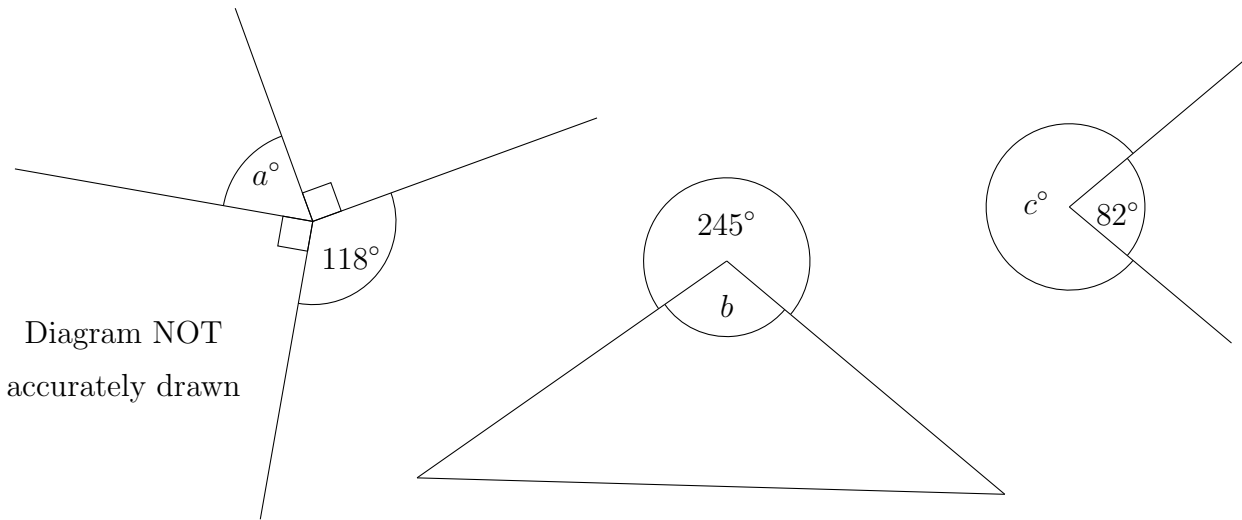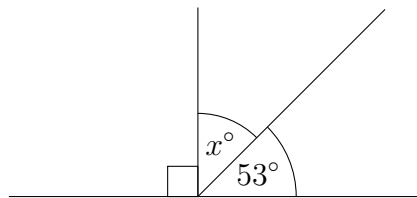
   angle a ....

   angle b ....

   angle c ....

   angle d ....

3. What kind of angle is angle u? {OR v, w, x, a or b}

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4. (i) Work out the value of a/b/c.

(ii) Give a reason for your answer

$a°$

$118°$

Diagram NOT
accurately drawn

$245°$

b

$c°$ $82°$

5. (i) Work out the value of x/b/x/a/y.

(ii) Give a reason for your answer

C

A x B

$128°$

P

Q

D

$105°$ b

A B C
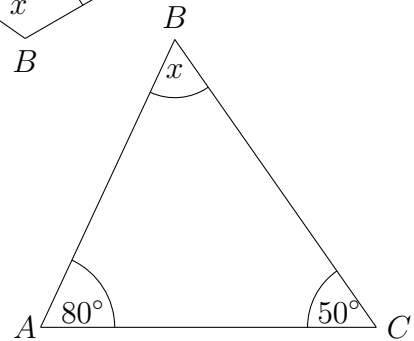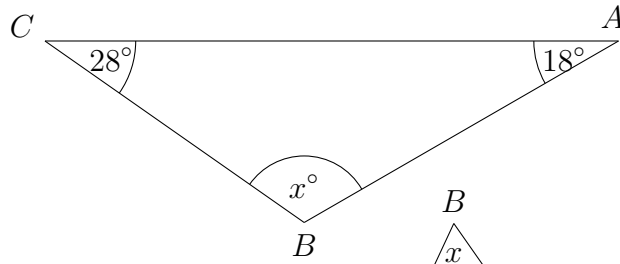
$x°$ $53°$

D C

$y°$ $123°$

A B E
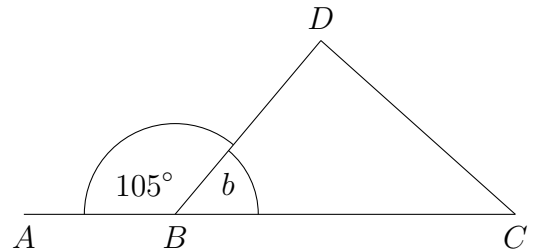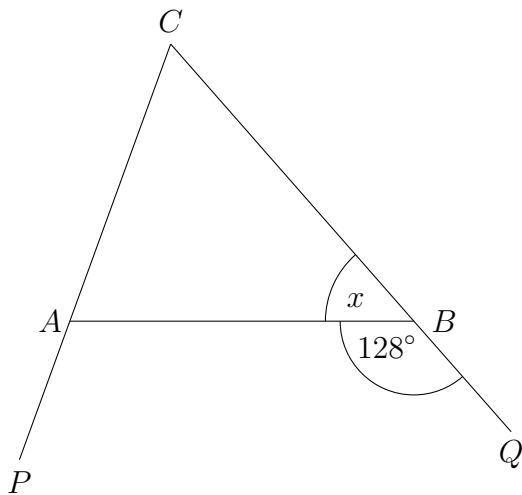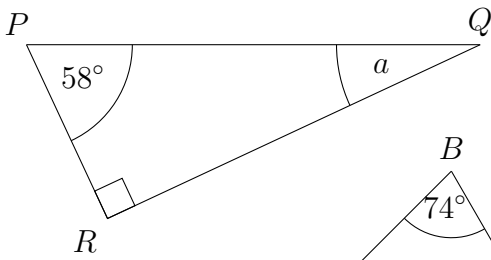
XYZ is a straight line.

VYW is a straight line.

V

$81°$

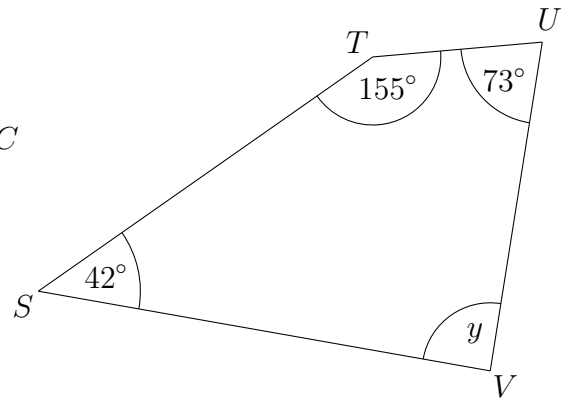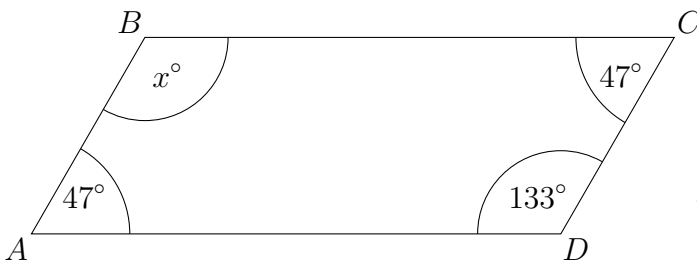X Y $a°$ Z

W

D

$65°$ $125°$

A B C
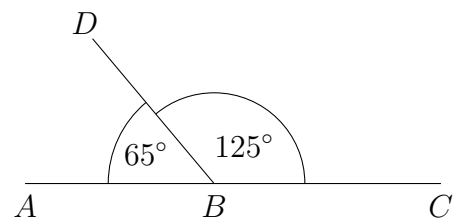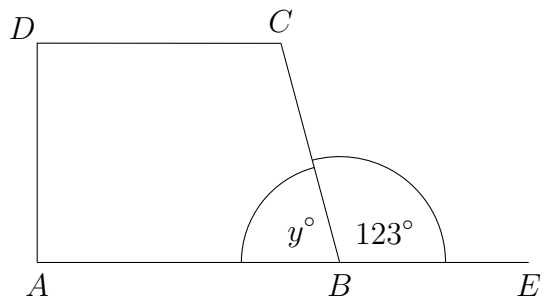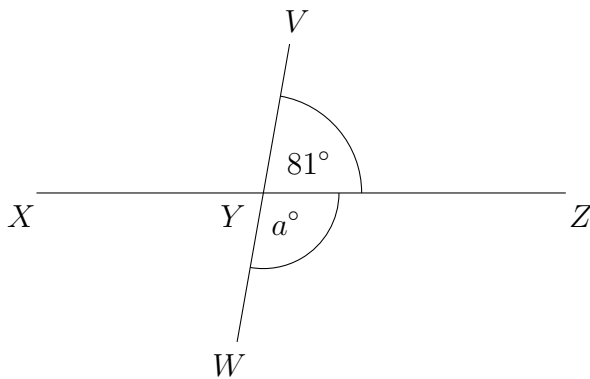
Is ABC a straight line?

6. (i) Work out the value of a/x.

   (ii) Give a reason for your answer

P Q
58° a

R

B
74°

A 62°

$x°$ C

C 28°   18° A

$x°$
B

B
x

A 80°   50° C
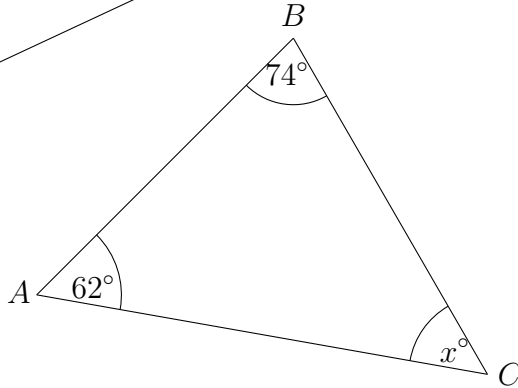
7. (i) Work out the size of the angle marked x/y.

   (ii) Give a reason for your answer

B C
$x°$ 47°

47°   133°
A D

U
T
155°   73°

42°
S

y
V

8. Work out the size of the angle CAB {or BCD or PQS or acute angle ACB}

A B

Angle ACB = 30°

Angle ABC = 125°

C

B

C

A D
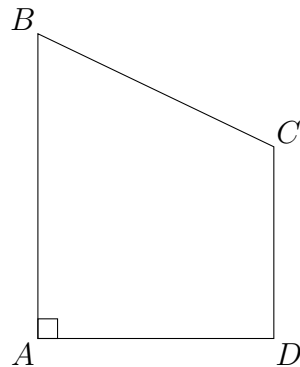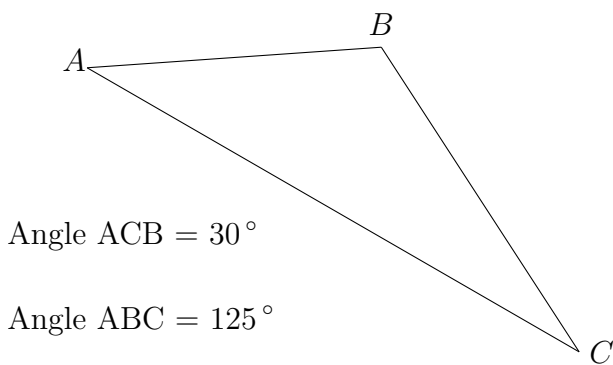
Angle BAD = 90°

Angle ABC = 68°

Angle ADC = 89°

PQR is a straight line.

SQT is a straight line.

Angle PQT = angle SQR = 58°

S

P Q R

T

A

B

C

Reflex angle ACB = 325°
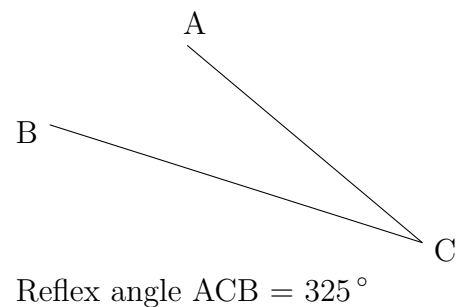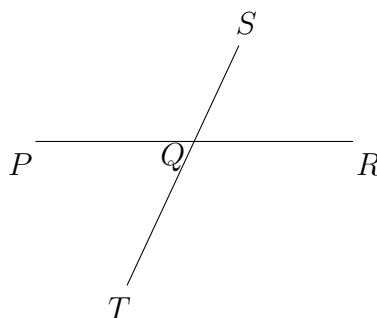
9. Here is a regular polygon, a proportional triangle and an incomplete prime factor tree.

   (i) Complete the labels of the exterior angles, e, and an interior angle, i, of the polygon.
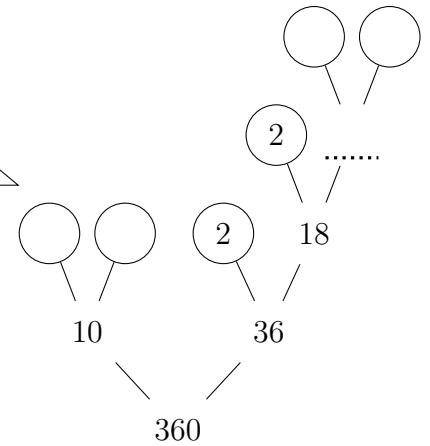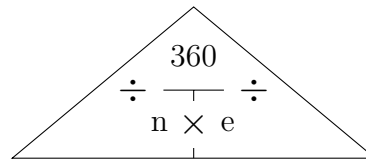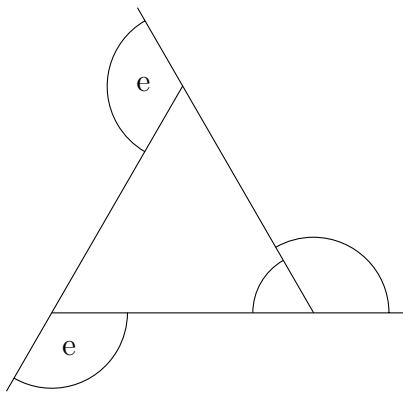
   (ii) Complete: number of sides, n = ...

                   exterior angle, e = ...°

                   interior angle, i = ...°

   {You may use the proportional triangle and prime factor tree}

10. Here is a regular polygon with 9 sides.

                   Diagram NOT
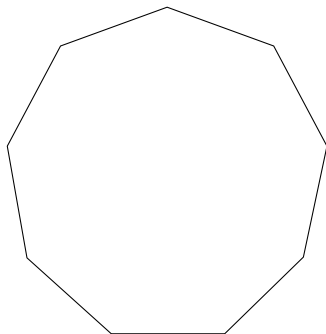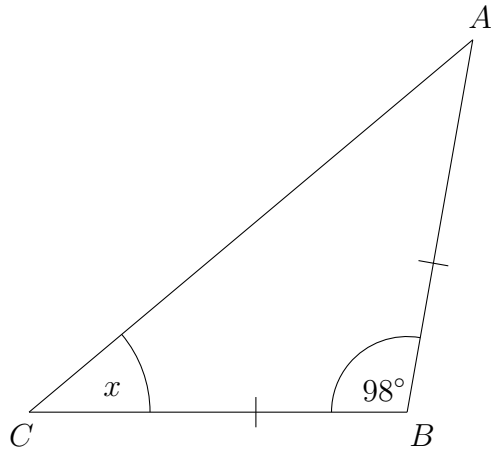
                   accurately drawn.
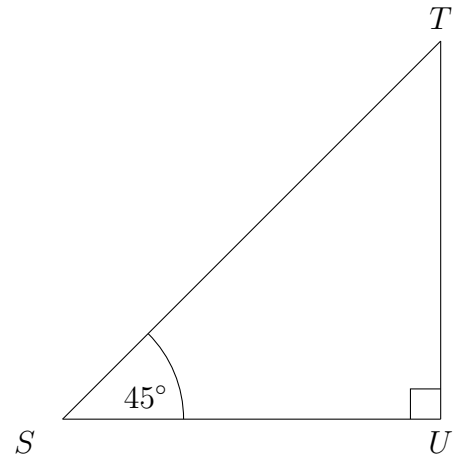
   Work out the size of an exterior angle.

11.   11. not written yet

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12. (a)   (b)

Diagrams NOT accurately drawn.

(i) Work out the value of x.

(ii) Give a reason for your answer

(b) Faith says that triangle STU is isosceles.

Is she correct?

You must give a reason for your answer.