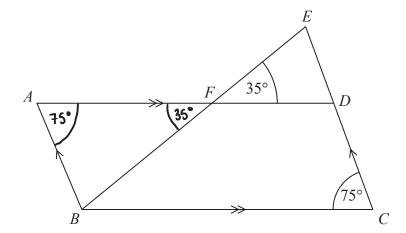
1.



ABCD is a parallelogram.

EDC is a straight line.

F is the point on AD so that BFE is a straight line.

Angle $EFD = 35^{\circ}$

Angle $DCB = 75^{\circ}$

Show that angle $ABF = 70^{\circ}$

Give a reason for each stage of your working.

Angu BAD = 75° because opposite angles in a paravelogram are equal

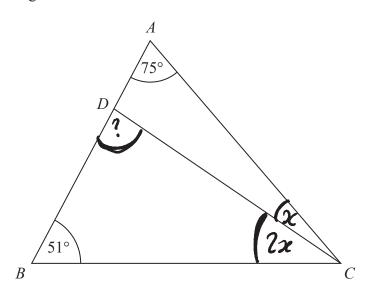
Angu AFD = 35° because vertically opposite angus are equal/

75+35=110

180-110=70

Therefore angle ABF = 70°/

2. The diagram shows triangle *ABC*.

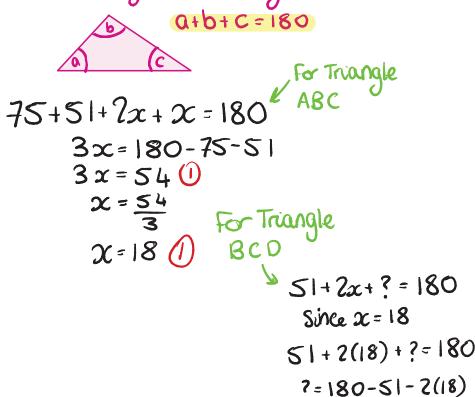


ADB is a straight line.

the size of angle DCB: the size of angle ACD = 2:1

Work out the size of angle BDC.

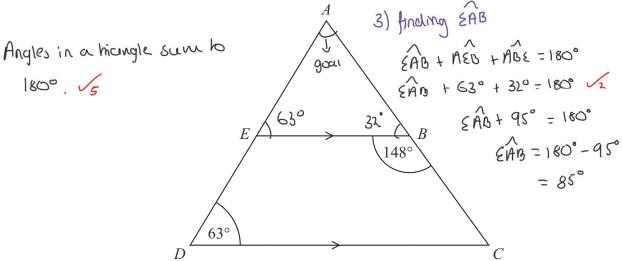
All interior angles of a triangle add to 180°



=180-51-36

(*V*) 93

3. *ADC* is a triangle.



AED and ABC are straight lines. EB is parallel to DC.

Angle
$$EBC = 148^{\circ}$$

Angle $ADC = 63^{\circ}$

Work out the size of angle *EAB*.

You must give a reason for each stage of your working.

1) finding angle AEB.

AEB and ADC are corresponding angles (AE is on the line AED and EB and DC are parallel).

Ly AEB = ADC - J AEB = 630

2) finding angle ABE.

Line ABC 16 a straight line, and angles on a line sum to 180° 4