Angle - Sum Property
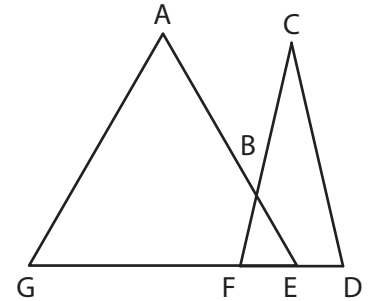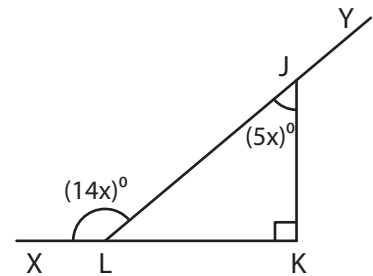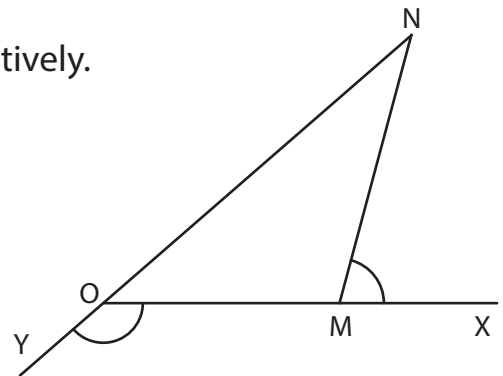
1) The triangle AEG is equilateral triangle and triangle CDF is isosceles triangle. If angle of D is 77⁰, find the angle of B.
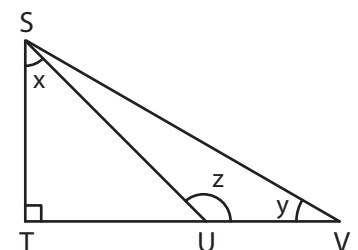
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2) Find the value of x and the measure of angle of JLX and KJY.

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3) The angle of MNO and MON are 34⁰ and 41⁰ respectively. Find the angle of OMN, MOY and NMX.

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4) The triangle STU is right isosceles triangle. If the angle of USV is 10⁰, find the value of x, y and z.
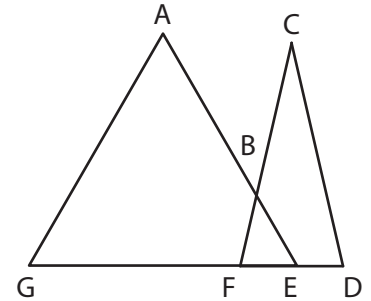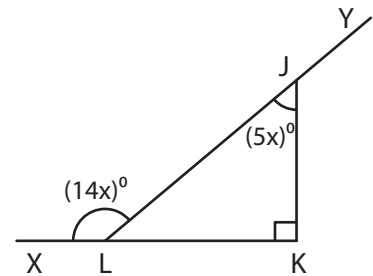
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Angle - Sum Property

Answer key

1)   The triangle AEG is equilateral triangle and triangle CDF is isosceles triangle.
     If angle of D is 77^0, find the angle of B.
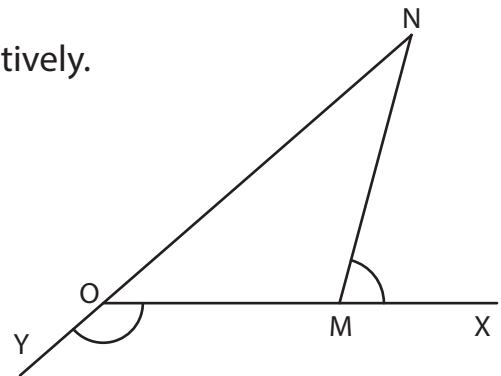
The angle of B is 43^0

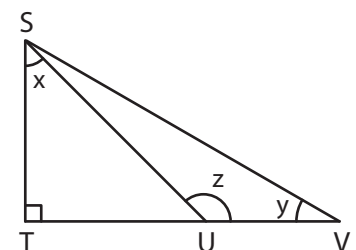2)   Find the value of x and the measure of angle of JLX and KJY.

(5x)^0

(14x)^0

x = 10, angle of JLX = 140^0, angle of KJY = 130^0

3)   The angle of MNO and MON are 34^0 and 41^0 respectively.
     Find the angle of OMN, MOY and NMX.

$\angle$OMN = 105^0, $\angle$NMX = 75^0, $\angle$MOY = 139^0

4)   The triangle STU is right isosceles triangle. If the angle of USV is 10^0, find the value
     of x, y and z.

x = 45^0, y = 35^0 and z = 135^0