Assignment Problems;

Similarity & Congruence:

Exercise 8:

Q1)

A and G; B and E are congruent shapes

Q3)

ABCD is a quadrilateral and a line through A parallel to BC meets DC at X. If angle D is equal to angle C, prove that triangle ADX is isosceles.

Given: ABCD = quadrilateral
AX parallel to BC
angleBCD = angleADX

Since AX parallel to BC, then angleAXD = angleBCD and angle ADX

Since angleAXD = angleADX then AD = AX

Since AD = AX then triangleADX is isosceles.

Exercise 9:

Q1)

Area of triangle A = $(6/3)^2$ x 4

Area of triangle A = 2^2 x 4

= 4 x 4 = 16 cm^2

Q4)

Area of Triangle A = 1/4 x 58 = 58/4 = 29/2 = 14(1/2) square cm.

Exercise 10:

Q2) Volume of v = (27/1) x 20

= 540 cu.cm

Q5) volume of v = (27/8) x 24 = 648/8 = 81cu.cm