## Ceanetry Test 2 Solns

ps (1)

1. SSS all 3 sides equal
SAS two sides and the angle between equal
AAS two angles and a side equal.

3. 
$$\frac{3}{3}$$
  $\frac{3}{3}$   $\frac$ 

Ceanatry Test 2 Solves

LA = LC because opposite angles of a parallelogram are

- The frangles share the side DB - LADB = LCBD because apposite angles of parallel have same measure

By AAS the triangles DADB and DCBD are congruent

6. Trangles are similar iff a dilation of one is congruent to the other.

7. a) If all angles are equal
b) If corresponding sides have the same ratio for all sides.

8. The smaller trangle is '3 the size of the bigger

a) So / GH/ii /3 of (DF | = 8 that is | GH | = \frac{1}{3} \cdot \

1) SEGH is similar to SEDF

c) Becawe their corresponding angles are equal i) They share LE

(i) m LEGH = m LEDF because corresponding sides
of a line inherections, perallel lines GH, DF

(ii) m LEHG = m LEFD because corresponding sides
of a line inherections, perallel lines GH, DF

9. Dilation by a factor of r multiplies each coordinate

16- Angles are unchanged by dilation

$$A = \pi \sqrt{2} = 36\pi$$

$$\sqrt{2} = 36\pi$$

$$r^{2}=36$$

$$r=6$$
Crounterence = 2Tr
$$= 2T-6$$

6) 4 sides area = 9x8 + 10x8 + 9x8 + 10x8 = 144 + 100 = 304 4 sides = 204 + 45T