For 1 - 4, give areas and lengths to three significant digits. Give angle measures to the nearest tenth of a degree.

Find the area of  $\triangle ABC$ 

1a)	a = 4, b = 5, ∠C = 30°	2a)	b = 3, c = 8, ∠A = 120°
b)	a = 4, b = 5, ∠C = 150°	b)	b = 3, c = 8, ∠A = 60°

- 3a)  $a = 6, c = 2, \angle A = 35^{\circ}, \angle C = 100^{\circ}$ b)  $a = 6, c = 2, \angle A = 15^{\circ}, \angle C = 30^{\circ}$
- 4a) a = 10, b = 20, ∠ A = 82°, ∠ B = 28°
  b) a = 10, b = 20, ∠ C = 110°



Find the missing measurement. Give areas and lengths to three significant digits. Give angle measures to the nearest tenth of a degree.

- 6) Find the area of  $\Delta XYZ$  if x = 16, y = 25, and  $\angle Z = 52^{\circ}$
- 7) Find the area of  $\Delta RST$  if  $\angle S = 125^{\circ}$ , r = 6, t = 15.
- 8) The area of  $\triangle$ ABC is 15. If a = 12, b = 5, find all possible measures for  $\angle$  C.
- 9) The area of  $\triangle PQR$  is 9. If q = 4, r = 9, find all possible measures for  $\angle P$ .
- Adjacent sides of a parallelogram have lengths of 6cm and 7cm, and the measure of the included angle is 30°.
   Find the area of the parallelogram.

Id) 5 3d) 4.24 5)	K = 1/2bh 9) 30	° or 150°
1b) 5 3b) 4.24 6)	158 10) 2	1cm <sup>2</sup>
2a) 10.4 4a) 94.0 7) 1	36.9	
2b) 10.4 4b) 94.0 8)	30° or 150°	

