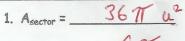
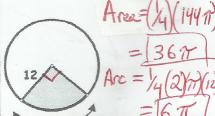
Find the shaded area. On problems 1-3, find the arc length for the shaded sector also.

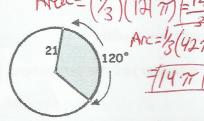


Arc length = 6 7 u

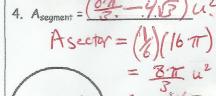


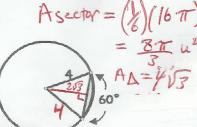
Arc length = $14\pi u$. Arc length = $\frac{4\pi}{3}u$.

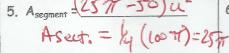




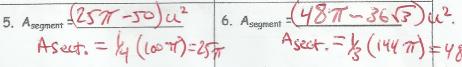


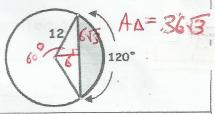




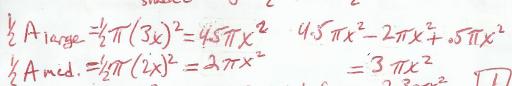


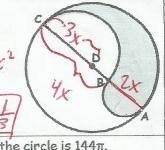






7. If BC = 2AB, what fraction of the circle is shaded? (Hint: Let the AB = 2x. D is the center of the big circle. AB is the diameter of a little circle and BC is the diameter of a medium circle. Find the areas in terms of x.) A = /A large JAmed. HAsmall

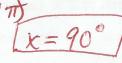




½ A Simpl(= $\frac{1}{2}\pi x^2 = .5\pi x^2$ What fraction? $\frac{3\pi x^2}{9\pi x^2} = \frac{1}{3}$ 8. Find the degree measure of the arc of a sector with area 36π if the area of the circle is 144π .

Asect =
$$\left(\frac{x}{360}\right)$$
 (Area ©) $36\pi = \frac{x}{360}$ (1447)

36T = .4TX



9. Two circles have radii 3 cm. and 5 cm. Find the ratio of their areas. A3cm = 97 cm

Ascm = 25TT Cm

10. The areas of two circles are in the ratio 16 to 9. Find the ratio of their radii.

TIC2=16TT TIC2=9TT



ratio-14