

 $\frac{3}{4}\pi$  = \_\_\_\_, \_\_\_\_, \_\_\_\_,



Arc Length: To find the measure of the length of an arc:  $s = r\theta$ S = arc length; r = radius;  $\theta$  = angle measure in radians

GSE PreCalculus

Ex 1: 
$$\frac{\pi}{4}$$
;  $r = 3m$  Ex 2:  $\frac{7\pi}{6}$ ;  $r = 2.1yds$  Ex. 3: 140°;  $r = 11.1cm$ 

Ex 4: A circle has a radius of 4 inches. Find the length of an arc intercepted by a central angle of  $240^{\circ}$