Accelerated Geometry CC 17.1—17.3 Review	NAME: Period: Date:
1. Find the corresponding radian measure: (a) -240°	(b) 420°
2. Find the corresponding degree measure: (a) 3.4	(b) $-\frac{7\pi}{4}$
3. Find the measure of a central angle θ in a circle of radius 5 of length 7 ft.	ft. if the angle is subtended by an arc
4. A circular arc of length 100 ft. subtends a central angle of	70°. Find the radius of the circle.
5. Find the values of the six trigonometric functions of θ .	
6. Find the sides labeled x and y. $y = \frac{x}{35^{\circ}}$ 2	3
7. Find the values of the trig functions of θ given that $\cos\theta$ =	$=\frac{8}{17}$ and $\sin\theta < 0$.
8. Find the reference angle for $\theta = \frac{3\pi}{5}$.	
9. Find the 6 trig functions of the point $(-2, -3)$.	

- 10. A helicopter is dropping water on a forest fire from a height of 300 ft. If one side of the fire makes an angle of depression of 40°, and the other side makes an angle of depression of 85° on the other side of the helicopter, how wide is the fire?
- 11. From the top of a 250 ft lighthouse, the angle of depression to a ship in the ocean is18°. How far is the ship from the base of the lighthouse?

Find the value of x. Write your answer in simplest radical form.



17. Find a positive and a negative coterminal angle for each of the following:

a)
$$-120^{\circ}$$
 b) $\frac{2\pi}{7}$ c) 405° d) $\frac{17\pi}{24}$

18. Find the complement and supplement for each of the following:

a) 85° b)
$$\frac{2\pi}{7}$$
 c) $\frac{11\pi}{16}$ d) 255°

19. Determine the Quadrant of the following angles:

a)
$$\frac{3\pi}{4}$$
 b) -315° c) $\frac{25\pi}{24}$ d) $\frac{11\pi}{3}$

20. Label what trig functions are positive in each quadrant.