Honors Math 3

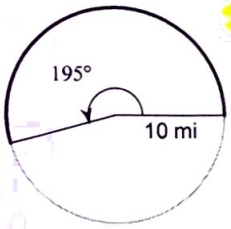
Name MCG

BIG Trig Quiz Review Sheet

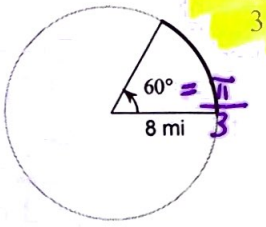
Date _____

Find the length of each arc.

1) $\frac{65\pi}{6}$ mi

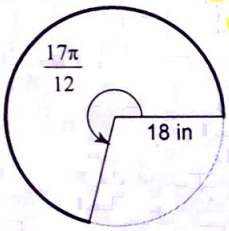


2) $\frac{8\pi}{3}$ mi $\quad \frac{8\pi}{3}$

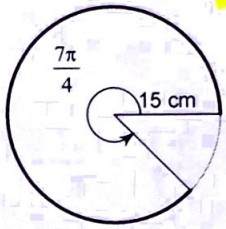


$l = \frac{\pi}{3}(8)$

3) $\frac{51\pi}{2}$ in

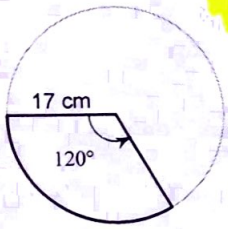


4) $\frac{105\pi}{4}$ cm $\quad \frac{105\pi}{4}$

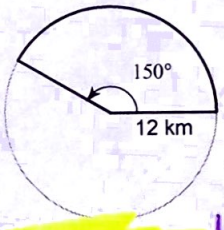


Find the area of each sector.

5) $\frac{289\pi}{3}$ cm^2 $\quad \frac{289\pi}{3}$

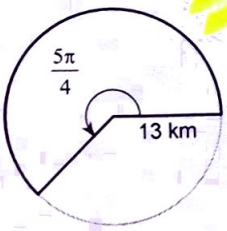


6)

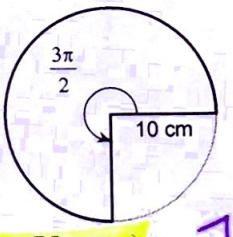


60π km^2 $\quad 60\pi$

7) $\frac{845\pi}{8}$ km^2 $\quad \frac{845\pi}{8}$



8)



75π cm^2 $\quad 75\pi$

Convert each degree measure into radians and each radian measure into degrees.

9) $\frac{35\pi}{6}$ $\quad 1050°$

10) $-\frac{9\pi}{4}$ $\quad -405°$

1050°

11) -240° $\quad -\frac{4\pi}{3}$ $\quad -\frac{4\pi}{3}$

-405°

12) 80° $\quad \frac{4\pi}{9}$ $\quad \frac{4\pi}{9}$

13) 300° $\quad \frac{5\pi}{3}$ $\quad \frac{5\pi}{3}$

14) $\frac{11\pi}{6}$ $\quad 330°$

330°

16) 435° $\quad \frac{29\pi}{12}$ $\quad \frac{29\pi}{12}$

15) $\frac{5\pi}{3}$ $\quad 300°$

300°

Find a positive and a negative coterminal angle for each given angle.

17) $-604°$

116° and −244°, −964°

18) $-340°$

20° and −700°

19) $148°$

508° and −212°

20) $240°$

600° and −120°

21) $\frac{8\pi}{15}$ $\frac{38\pi}{15}$ and $-\frac{22\pi}{15}$

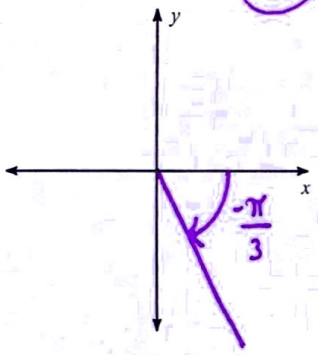
22) $\frac{28\pi}{9}$ $\frac{10\pi}{9}$ and $-\frac{8\pi}{9}$, $\frac{18\pi}{9}$, $\frac{46\pi}{9}$

23) $\frac{11\pi}{18}$ $\frac{47\pi}{18}$ and $-\frac{25\pi}{18}$

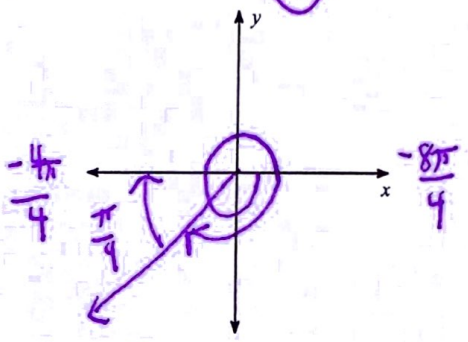
24) $-\frac{4\pi}{45}$ $\frac{86\pi}{45}$ and $-\frac{94\pi}{45}$

Draw an angle with the given measure in standard position.Then, state the measure of its reference angle. Find the values of sine, cosine and tangent.

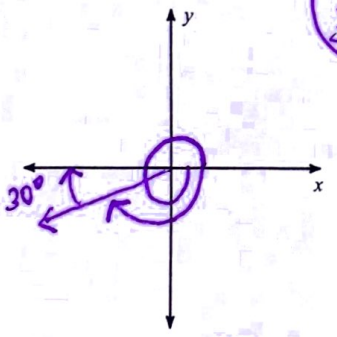
25) $-\frac{\pi}{3}$ $\frac{\pi}{3}$



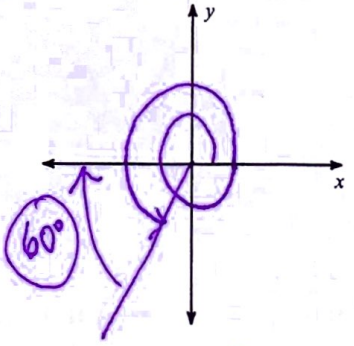
26) $-\frac{11\pi}{4}$ $\frac{\pi}{4}$



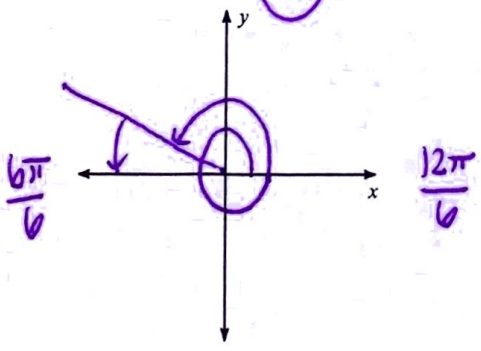
27) $-510°$ 30°



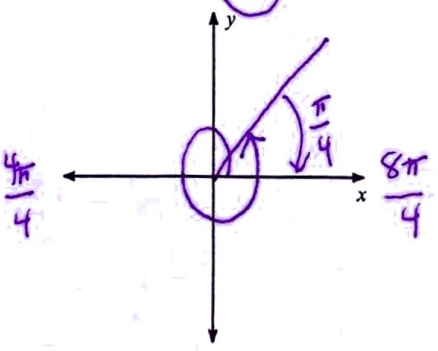
28) $600°$



29) $\frac{17\pi}{6}$ $\frac{\pi}{6}$



30) $\frac{9\pi}{4}$ $\frac{\pi}{4}$



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