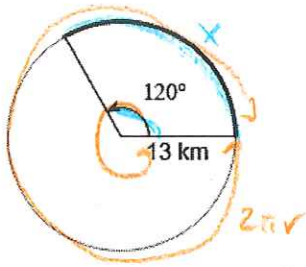


Selected Solution from "Old Handout" given out 3/28 or 3/29

14)



$$\frac{120^\circ}{360^\circ} \times \frac{x}{2\pi \cdot 13}$$

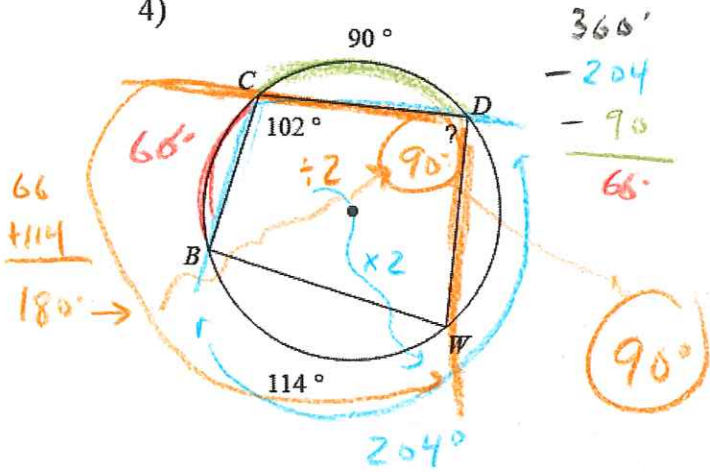
$$\frac{3120\pi}{360} = \frac{360x}{360}$$

reduce Fraction

$$\frac{26\pi}{3} \text{ km} = x$$

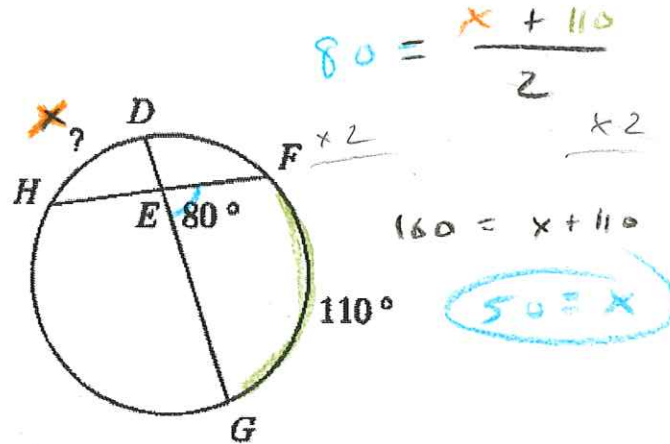
Selected Solutions from "New Handout" given out 4/1/19

4)



$$\begin{array}{r} 360^\circ \\ - 204 \\ \hline 90^\circ \\ \div 2 \\ \hline 45^\circ \end{array}$$

5)

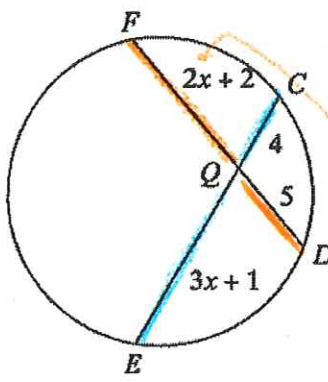


$$80 = \frac{x + 110}{2} \times 2$$

$$160 = x + 110$$

$$50 = x$$

8) Find QF



$$5(2x + 2) = 4(3x + 1)$$

$$10x + 10 = 12x + 4$$

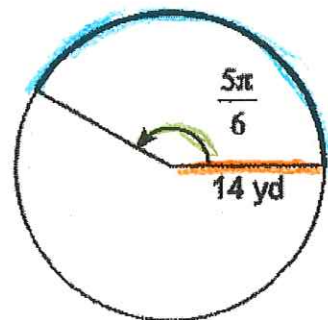
$$6 = 2x$$

$$3 = x$$

$$QF = 2x + 2 = 2(3) + 2 = 8$$

$$\text{Arc Length} = r \cdot \theta$$

10)



$$14 \cdot \frac{5\pi}{6}$$

$$\frac{70}{6} \pi \rightarrow \text{reduce} \rightarrow \frac{35}{3} \pi \text{ yd}$$

14) Ends of a diameter: $(-8, 15)$ and $(-2, -1)$



① Center? Find midpoint: $\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$
 $\left(\frac{-8+(-2)}{2}, \frac{15+(-1)}{2}\right) \rightarrow (-5, 7)$
H K

② $(x+5)^2 + (y-7)^2 = r^2$

③ Now plug in either given point into (x, y) slots
 Let's use $(-2, -1)$.

$$(-2+5)^2 + (-1-7)^2 = r^2$$

$$(3)^2 + (-8)^2 = r^2$$

$$9 + 64 = r^2$$

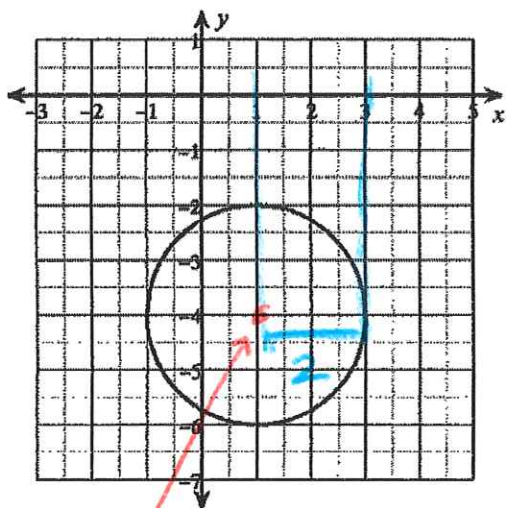
$$\underline{73 = r^2} \quad *!$$

Now I have r^2 !

④

$$(x+5)^2 + (y-7)^2 = 73$$

21 18)



Center?

$$(1, -4)$$

radius? 2 units

$$(x-1)^2 + (y-(-4))^2 = 2^2$$

$$(x-1)^2 + (y+4)^2 = 4$$