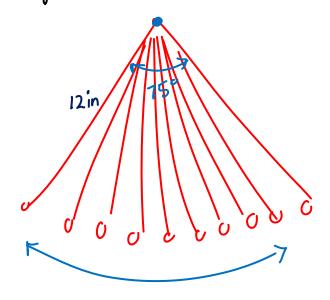
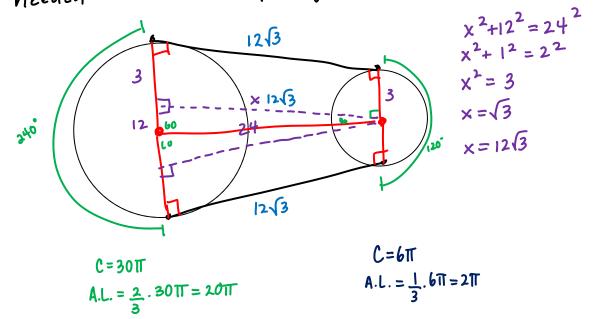


#15 Find the distance traveled in one back and forth swing by a pendulum that swings at a 75° angle



 $C = 24\pi$ $\frac{15}{360} = \frac{5}{24}$ $A.L. = \frac{5}{24} \cdot 24\pi = 5\pi$ Back AND for th: 10 π #17 Jwo pulleys are connected by a belt. The radii of the pulleys are 3 cm and 15cm, and the distance between their centurs 15 24 cm. Find the total length of belt needed to connect the pulleys.



Total Length of Belt = 12√3 + 12√3 + 21T+20π (24√3 + 221T) cm