



XCIRC SOLUTION

$$T - t = rB + 201.613 = sA + 90.842$$

$$sA = rB + 201.613 - 90.842$$

$$AD = AF = 90.842, BE = BF = 201.613 \text{ and } AB = 292.455$$

$$pA = 292.455 - pB = 292.455 - rB, \text{ because } rB = pB \text{ and } pA = sA$$

$$rB + 201.613 - 90.842 = 292.455 - rB$$

$$2 \cdot rB = 181.684 \text{ and } rB = 90.842 \text{ so } sA = 292.455 - 91.084 = 201.613$$

$$\text{Angle DQA} = \frac{1}{2} \text{ angle DQF}, \text{ angle sAq} = \frac{1}{2} \text{ angle sAp}$$

$$\text{But angle sAp} = \text{angle DQF}, \text{ so angle DQA} = \text{angle sAq}$$

$$\frac{sA}{qs} = \frac{QD}{AD}$$

$$\frac{201.613}{81.35} = \frac{QD}{90.842}, \text{ and } QD = 225.137$$