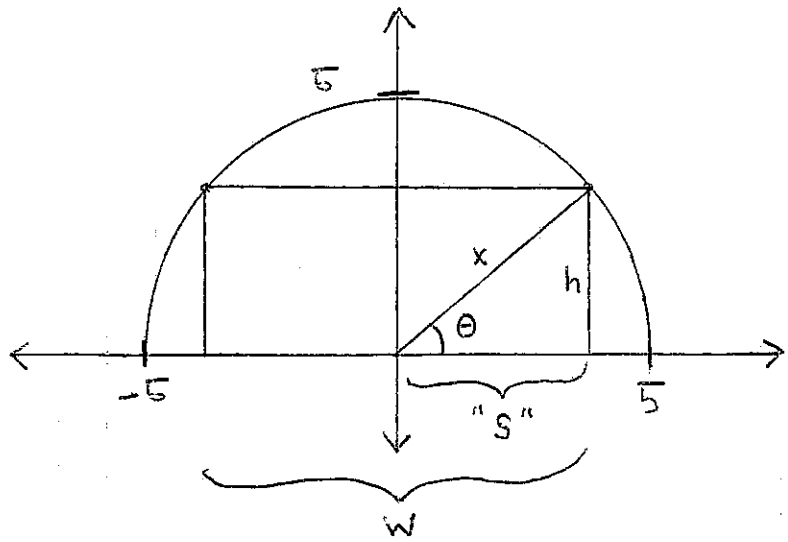
Addendum to HW 2, supplement question #2:



Note: • $x = 5$ = radius,

• $\sin\theta = \frac{opp}{hyp} = \frac{h}{x}$, so

$$h = x\sin\theta = 5\sin\theta$$

• $\cos\theta = \frac{adj}{hyp} = \frac{s}{x}$, so

$$w = 2s = 2 \cdot x \cdot \cos\theta$$
$$= 10\cos\theta$$