

## Harmonic Mean Between Telephone Poles

$$\overline{AD} \perp \overline{AB}$$

$$\overline{CB} \perp \overline{AB}$$

Diagonals  $\overline{DB}$  and  $\overline{AC}$  intersect at E.

(Drop  $\perp$  from E to  $\overline{AB}$ .)

$$\text{Prove: } EF = \frac{AD \cdot CB}{AD + CB}$$

