



$$\triangle ABC \sim \triangle DBE$$

$$\frac{AB}{BD} = \frac{AC}{DE}$$

$$BD = AB - AD, \text{ omne:}$$

$$\frac{AB}{AB - AD} = \frac{AC}{DE}$$

$$\frac{16}{16 - AD} = \frac{20}{15} \quad | \quad 16 - AD = \frac{16 \cdot 15^3}{20 \cdot 4}$$

$$= 12$$

$$-AD = -16 + 12$$

$$AD = 4 \text{ (cm)}$$