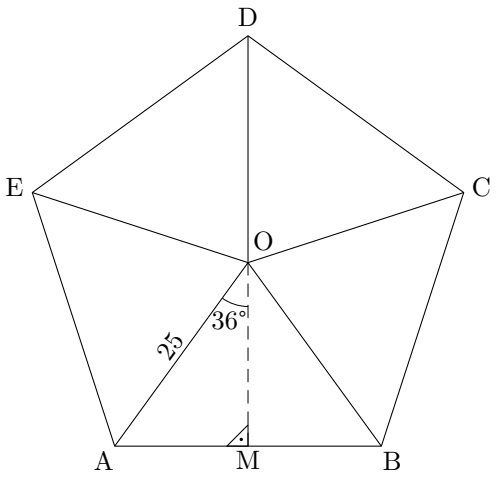
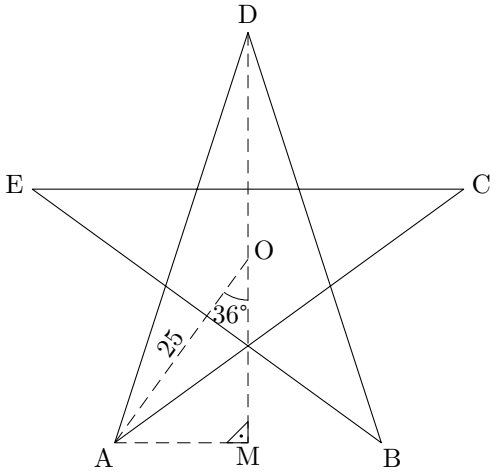
**15.6** 1)




L'angle $\widehat{\text{AOM}}$ vaut $\frac{360^\circ}{10} = 36^\circ$.
$\text{AM} = \text{AO}\ \sin(36^\circ) = 25 \cdot \sin(36^\circ) \approx 14{,}69$
$\text{AB} = 2 \cdot \text{AM} \approx 29{,}39$

2)




$\text{OM} = \text{AO}\ \cos(36^\circ) = 25 \cdot \cos(36^\circ) \approx 20{,}23$
$\text{DM} = \text{DO} + \text{OM} \approx 25 + 20{,}23 = 45{,}23$
$\text{AD} = \sqrt{\text{AM}^2 + \text{DM}^2} \approx \sqrt{(14{,}69)^2 + (45{,}23)^2} = 47{,}55$