

$$\sin(\widehat{BAD}) = \sin(\widehat{BAC} + \widehat{CAD})$$

$$= \sin(\widehat{BAC}) \cos(\widehat{CAD}) + \cos(\widehat{BAC}) \sin(\widehat{CAD})$$

$$\sin(\widehat{BAC}) = \frac{3}{5} \quad \cos(\widehat{BAC}) = \frac{4}{5}$$

$$\cos(\widehat{CAD}) = \frac{4,8}{5} \quad \sin(\widehat{CAD}) = \frac{1,4}{5}$$

$$\text{Donc } \sin(\widehat{BAD}) = \frac{3}{5} \times \frac{4,8}{5} + \frac{4}{5} \times \frac{1,4}{5} = \frac{14,4 + 5,6}{25}$$

$$= \frac{20}{25} = \frac{4}{5}$$

CQFD