Finding an Angle: Question 1

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We need to use the law of cosines.

$$16^2 = 9^2 + 12^2 - 2 * 9 * 12 * cos(C)$$
 (1)

$$256 - (81 + 144) \rightarrow 31$$
 (2)

$$-\frac{31}{216} = \cos(C) \tag{3}$$

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$$C = \cos^{-1}(-\frac{31}{216}) \approx 81.75^{\circ} \tag{4}$$