

A

5

19

a

B

$$\textcircled{1} \quad 5^2 + a^2 = 19^2$$

$$25 + a^2 = 361$$

$$a^2 = 336$$

$$a = 18.33$$

$$\textcircled{2} \quad \cos A = \frac{5}{19}$$

$$A = \cos^{-1} \left( \frac{5}{19} \right)$$

$$A = 74.74^\circ$$

$$\textcircled{3} \quad A + B + 90^\circ = 180^\circ$$

$$74.74^\circ + B + 90^\circ = 180^\circ$$

$$B = 15.26^\circ$$

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