



$$\begin{aligned}\textcircled{1} \quad 5^2 + a^2 &= 19^2 \\ 25 + a^2 &= 361 \\ a^2 &= 336 \\ a &= 18.33\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad \cos A &= \frac{5}{19} \\ A &= \cos^{-1}\left(\frac{5}{19}\right) \\ A &= 74.74^\circ\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad A + B + 90^\circ &= 180^\circ \\ 74.74^\circ + B + 90^\circ &= 180^\circ \\ B &= 15.26^\circ\end{aligned}$$

# Multiple Step Right Triangle Trigonometry Examples

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**Algebra and Trigonometry** Michael Sullivan,1996 This text uses the graphing utility to enhance the study of mathematics Many of the problems are solved using both algebra and a graphing utility and the text illustrates the

advantages and benefits of each approach Technology is used to solve problems when no algebraic solution is available

*Directory, revised to March 1861(-June 1885), with regulations for establishing and conducting science schools & classes*  
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