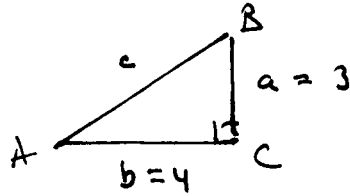


exercise

§2.1 12) $a = 3$, $b = 4$

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Find all six trig functions for angle B.

$$c^2 = a^2 + b^2 = 3^2 + 4^2 = 9 + 16 = 25 \text{ so } c = 5.$$

$$\sin B = \frac{4}{5} \quad \cos B = \frac{3}{5} \quad \tan B = \frac{4}{3}$$

$$\csc B = \frac{5}{4} \quad \sec B = \frac{5}{3} \quad \cot B = \frac{3}{4}$$

How can we express

24) $\cot 73^\circ$ in terms of the tangent function?

$$\cot 73^\circ = \tan(90^\circ - 73^\circ) = \tan 17^\circ.$$