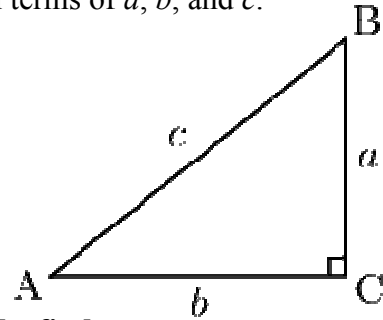


Secant, Cosecant, and Cotangent – in book: Section 5.9 p. 336

1) Consider the triangle at right. Rewrite the expression in terms of a , b , and c .

- a) $\cot \theta$
- b) $\csc \theta$
- c) $\sec \theta$



In Questions 2-7, if $\cos x = 0.60$, given that x is an acute angle, find:

- 2) $\sec x$
- 3) $\sec(\pi - x)$
- 4) $\sec(-x)$
- 5) $\csc x$
- 6) $\cot x$
- 7) $\csc(-x)$

In Questions 8-13, evaluate without technology.

- 8) $\sec \frac{\pi}{2}$
- 9) $\csc 210^\circ$
- 10) $\cot 135^\circ$
- 11) $\csc \frac{7\pi}{6}$
- 12) $\cot \frac{\pi}{3}$
- 13) $\sec(-225)^\circ$

In Questions 14-17, write as the value of a single trigonometric function.

- 14) $\frac{1}{\sec x}$
- 15) $\sec x \cot x$
- 16) $\frac{\csc x}{\sec x}$
- 17) $\frac{1}{\cos x \tan x}$