

Formative Assessment #30 – Evaluating Trigonometric Functions

C7.1 - I can determine the limits of trigonometric expressions (using direct substitution/special limits).

Evaluate the following limits on your own paper. *Show your work.*

a) $\lim_{x \rightarrow \frac{\pi}{4}} \cos x$

b) $\lim_{x \rightarrow \frac{\pi}{3}} (\sin x - \cos x)$

c) $\lim_{x \rightarrow 0} \frac{\sin 8x}{12x}$

d) $\lim_{x \rightarrow 0} \frac{3x \cdot \tan x}{\sin x}$