

# MATH110 - College Trigonometry

## Assignment 006

$$\tan(x - y) = ?$$
$$= \frac{\tan x - \tan y}{1 + \tan x \tan y}$$

If  $x = \tan^{-1}(1)$  and  $x$  is in the first quadrant, then what is a possible value of  $x$ ?

$$= \pi/4$$

Which of the following expressions is equivalent to  $\sin 2B$ ?

$$= 2\sin B \cos B$$

$y = \sin^{-1}\left(\frac{1}{2}\right)$ ,  $0 \leq y < 2\pi$  then how many possible values of  $y$  are there?

$$= 2$$

$A = \frac{3}{5}$ ,  $\cos A = \frac{4}{5}$ ,  $\sin B = \frac{12}{13}$ ,  $\cos B = \frac{5}{13}$  then what is the value of  $\sin(A + B)$ ?

$$= \frac{63}{65}$$

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