

2 September 2014 **Trigonometry Review**

(1) If $\sin x = 1/3$ and $\sec y = 5/4$, evaluate $\sin 2y$ and $\cos 2x$.

(2) Find all values of x in the interval $[0, 2\pi]$ that satisfy the equation.

(a) $2 \sin^2 x = 1$

(b) $|\tan x| = 1$

(c) $\sin 2x = \cos x$

(3) Simplify $\frac{1 - (\cos x + \sin x)^2}{2x \cos x}$.