

Quiz 8 — MA161 — September 26, 2018

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1. (9 points) Determine whether each of these equations is true or false:

(a) $\sin^{-1}\left(\sin\left(\frac{2\pi}{3}\right)\right) = \frac{2\pi}{3}$

(b) $\cos^{-1}\left(\cos\left(\frac{2\pi}{3}\right)\right) = \frac{2\pi}{3}$

(c) $\tan^{-1}\left(\tan\left(\frac{2\pi}{3}\right)\right) = \frac{2\pi}{3}$

2. (11 points) If $y = \sqrt{\sin 3x}$ find y' .