MATH 12 Sec. 5.5 – EXTRA PROBLEMS

FIND THE EXACT VALUE OF

1) $\tan\left(\sin^{-1}\frac{4}{5}\right)$

2) $\sin\left(\tan^{-1}\frac{2}{3}\right)$

3) $\cos\left(\sin^{-1}\frac{8}{17}\right)$

4) $\cos\left(\tan^{-1}\frac{5}{3}\right)$

5) $\sin^{-1}\left(\sin\frac{9\pi}{8}\right)$

6) $\sin\left(2\tan^{-1}4\right)$

7) $\cos\left(2\sin^{-1}\frac{5}{13}\right)$

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8) IF $\sin\theta = \frac{x}{2}$ AND $0 < \theta < \frac{\pi}{4}$,

WRITE $5\theta - 6\sin 2\theta$ IN TERMS OF x.

9) IF $\tan\theta = \frac{x}{3}$ AND $0 < \theta < \frac{\pi}{4}$,

WRITE $2\theta + 18\sec\theta\tan\theta$ IN TERMS OF x.
