

Math 196L (Spring 2018)

Part 2:

4. Suppose $\cos \theta = b$ where $0 < b < 1$, b is a constant, and $\frac{3\pi}{2} < \theta < 2\pi$.

Determine the following in terms of b :

(A) $\sin \theta$

(B) $\tan \theta$

(C) $\cos(-\theta)$

(D) $\sin(-\theta)$

(E) $\sin(\theta + \pi)$

(F) $\sin\left(\theta + \frac{\pi}{2}\right)$

5. The $\tan(\theta) = \frac{6}{7}$ write the 6 trig functions for this angle θ .

6. Evaluate the following without finding the actual angle value:

(A) $\cos(\sin^{-1}(-\frac{1}{2}))$

(B) $\csc(\arctan(\sqrt{3}))$

(C) $\sin(\arcsin(-3))$

(D) $\sec(\tan^{-1}(x))$

(E) $\tan\left(\cos^{-1}\left(\frac{3}{x}\right)\right)$