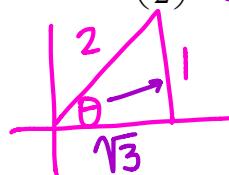
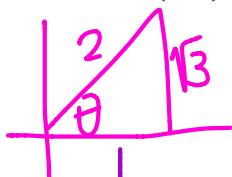


Pg 557 #1-8. Find the exact value of each expression, if it is defined.

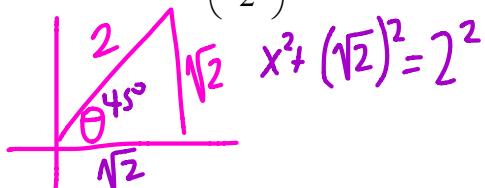
1. (a)  $\sin^{-1}\left(\frac{1}{2}\right)$   $30^\circ$  or  $\frac{\pi}{6}$



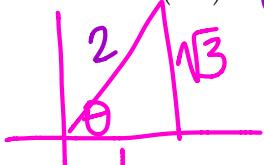
2. (a)  $\sin^{-1}\left(\frac{\sqrt{3}}{2}\right)$   $60^\circ$  or  $\frac{\pi}{3}$



3. (a)  $\sin^{-1}\left(\frac{\sqrt{2}}{2}\right)$   $45^\circ$  or  $\frac{\pi}{4}$

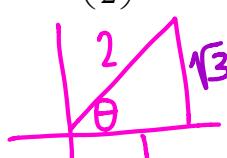


4. (a)  $\tan^{-1}(\sqrt{3})$   $60^\circ$  or  $\frac{\pi}{3}$



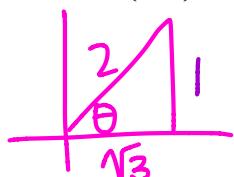
5. (a)  $\sin^{-1}(1)$   $90^\circ$  or  $\frac{\pi}{2}$

(b)  $\cos^{-1}\left(\frac{1}{2}\right)$   $60^\circ$  or  $\frac{\pi}{3}$

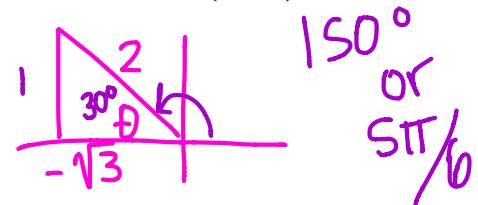


(c)  $\cos^{-1}(2)$  DNE  
 $x^2 + 2^2 \neq 1^2$

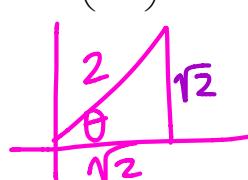
(b)  $\cos^{-1}\left(\frac{\sqrt{3}}{2}\right)$   $30^\circ$  or  $\frac{\pi}{6}$



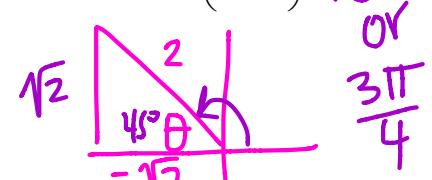
(c)  $\cos^{-1}\left(-\frac{\sqrt{3}}{2}\right)$



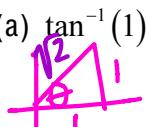
(b)  $\cos^{-1}\left(\frac{\sqrt{2}}{2}\right)$   $45^\circ$  or  $\frac{\pi}{4}$



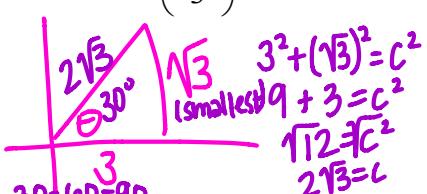
(c)  $\cos^{-1}\left(-\frac{\sqrt{2}}{2}\right)$   $135^\circ$  or  $\frac{3\pi}{4}$



6. (a)  $\tan^{-1}(1)$   $45^\circ$  or  $\frac{\pi}{4}$

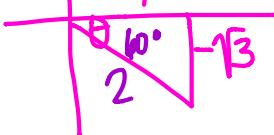


7. (a)  $\tan^{-1}\left(\frac{\sqrt{3}}{3}\right)$   $30^\circ$  or  $\frac{\pi}{6}$



8. (a)  $\sin^{-1}(0)$  0

(b)  $\tan^{-1}(-\sqrt{3})$   $-60^\circ$  or  $-\frac{\pi}{3}$



(c)  $\sin^{-1}(\sqrt{3})$  DNE



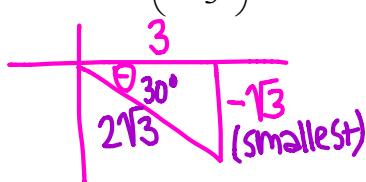
(c)  $\cos^{-1}(1)$   $0^\circ$  or  $0$

(b)  $\tan^{-1}(-1)$   $-45^\circ$  or  $-\frac{\pi}{4}$



(c)  $\tan^{-1}(0)$  0

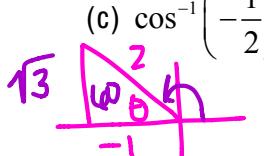
(b)  $\tan^{-1}\left(-\frac{\sqrt{3}}{3}\right)$   $-30^\circ$  or  $-\frac{\pi}{6}$



(c)  $\sin^{-1}(-2)$  DNE



(b)  $\cos^{-1}(0)$   $90^\circ$  or  $\frac{\pi}{2}$



(c)  $\cos^{-1}\left(-\frac{1}{2}\right)$   $120^\circ$  or  $\frac{2\pi}{3}$

