

INVERSE TRIG FUNCTIONS

TEXT: 7.1

LAST NAME	FIRST NAME	DATE
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1 (6 points). Find the exact value of each expression without using a calculator:

(a) $\sin^{-1}(-1/\sqrt{2})$

(d) $\sin^{-1}(\sqrt{3}/2)$

(b) $\tan^{-1}(1)$

(e) $\tan^{-1}(-1/\sqrt{3})$

(c) $\cos^{-1}(-1/2)$

(f) $\cos^{-1}(-1)$

2 (6 points). Find the exact value of each expression without using a calculator:

(a) $\cos^{-1}(\cos(7\pi/4))$

(d) $\sin^{-1}(\sin(-\pi))$

(b) $\sin^{-1}(\sin(2\pi/3))$

(e) $\tan^{-1}(\tan(3\pi/4))$

(c) $\tan^{-1}(\tan(-\pi/2))$

(f) $\cos^{-1}(\cos(-11\pi/6))$

3 (4 points). Find the exact value of each expression without using a calculator:

(a) $\sin(\cos^{-1}(-1/2))$

(b) $\sin(\tan^{-1}(\sqrt{7}))$

4 (4 points). Simplify each expression and state the domain of the function:

(a) $\cos(\sin^{-1}(y))$

(b) $\sec(\tan^{-1}(w))$