Day 10 HW

Thursday, January 8, 2015 9:44 AM

(3) 0 (4) 0 (5) $\frac{\pi}{3}$ (6) $\frac{\pi}{4}$ (13) $21.22°$ (15) $-85.43°$ (16) $103.3°$ (19) $-.48$ (20) 2.59

(23) $\frac{\sqrt{3}}{2}$ (24) $\frac{\sqrt{2}}{2}$ (25) $\frac{\pi}{4}$ (26) $\frac{\pi}{4}$ (27) $\frac{1}{2}$ (33) domain: $[-1,1]$, range: $[-\frac{\pi}{2},\frac{\pi}{2}]$
continuous, increasing, symmetric about $y=x$ (odd), abs. max: $\frac{\pi}{2}$, abs. min: $-\frac{\pi}{2}$
no asymptotes, no end behavior (bounded dom)

(34) same as #33

Solutions

(23) $\cos(\frac{\pi}{6}) = \frac{\sqrt{3}}{2}$ (24) $\sin(\frac{\pi}{4}) = \frac{\sqrt{2}}{2}$ (25) $\sin^{-1}(\frac{\sqrt{2}}{2}) = \frac{\pi}{4}$ (26) $\cos^{-1}(\frac{\sqrt{2}}{2}) = \frac{\pi}{4}$

(27) $\cos(2\frac{\pi}{6}) = \cos(\frac{\pi}{3}) = \frac{1}{2}$