

Problem sheet 8

(1) Evaluate the following expressions

(a) $\arccos \frac{\sqrt{3}}{2}$.

(b) $\arcsin(-1/2)$.

(c) $\cos \cos^{-1}(0.4)$.

(d) $\cos^{-1} \cos(\pi/2)$.

(e) $\cos^{-1} \cos(3\pi/2)$.

(2) Simplify the expression

$$\sin(\cos^{-1}(x)). \quad (1) \{?\}$$

(3) Simplify the expression

$$\tan(\arccos x). \quad (2) \{?\}$$