

Worksheet 9 - Lesson 32

1) Evaluate. Do not use a calculator.

(a) $\sin^{-1} \frac{\sqrt{3}}{2}$

(b) $\text{Arccos} -\frac{1}{2}$

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

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

(e) $\text{Arcsin} -\frac{1}{2}$

(f) $\text{Arctan} -\sqrt{3}$

2) Solve for all angles θ such that:

$$\sin \theta = \frac{\sqrt{2}}{2}$$

3) Solve for all angles θ such that:

$$\cos \theta = -\frac{\sqrt{3}}{2}$$

4) Solve for all angles θ such that:

$$\tan \theta = \frac{\sqrt{3}}{3}$$

5) Evaluate. Do not use a calculator.

$$\sin \cos^{-1} \frac{1}{2}$$

6) Evaluate. Do not use a calculator.

$$\cos \tan^{-1} \frac{4}{5}$$

7) Evaluate. Do not use a calculator.

$$\sin \sin^{-1} \frac{\sqrt{3}}{2}$$

8) Evaluate. Do not use a calculator.

$$\cos^{-1} (\cos (-135^\circ))$$