

1. What is the domain and range of $\arccos(x)$. (2pts)

Domain: _____

Range: _____

2. Evaluate the following without a calculator. Give an exact answer in radians. (5pts)

$$\cos^{-1}\left(-\frac{\sqrt{2}}{2}\right) = \underline{\hspace{2cm}}$$

$$\sin^{-1}\left(\frac{1}{2}\right) = \underline{\hspace{2cm}}$$

$$\arcsin(\sin(2\pi)) = \underline{\hspace{2cm}}$$

3. Find the exact value of $\cos(\tan^{-1}(2))$. (3pts)

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