MATH 19501 Quiz 18 - Winter 25

Name: _____ EMPLID: _____

Answer all 4 questions. You must show all of your work as neatly and clearly as possible and indicate the final answer in the provided region for each non-graph question. For all graph questions, you should sketch your graph on the grid provided.

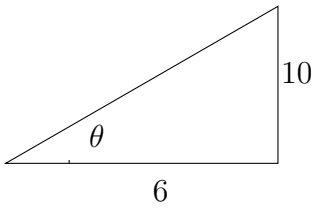
1. (4 points) Evaluate $\sin^{-1}(1)$. Your answer must be an angle in radians and in the interval $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$. Write your answer in the box below:

$\sin^{-1}(1) =$

2. (4 points) Evaluate $\cos^{-1}\left(-\frac{\sqrt{3}}{2}\right)$. Your answer must be an angle in radians and in the interval $[0, \pi]$. Write your answer in the box below:

$\cos^{-1}\left(-\frac{\sqrt{3}}{2}\right) =$

3. (4 points) Solve the triangle below. Find the angle θ using inverse trig. Leave your answer in terms of an inverse trigonometric function.



Write your answer in the box below:

$\theta =$

4. (4 points) Find the exact value of $\cos^{-1}\left(\sin\left(-\frac{11\pi}{4}\right)\right)$.

Write your answer in the box below:
