1. (1 point) Evaluate the quantity $\sec \left( -\frac{7\pi}{6} \right)$.

2. (3 points) Given an acute angle $\theta$ for which $\sin \theta = 3/5$, evaluate the following quantity.

$$\sin (\theta) + \sin \left( \frac{\pi}{2} - \theta \right) + \sin (\pi - \theta)$$
3. (3 points) Suppose that $f(x)$ is an odd function, $g(x)$ is an even function, $f(5) = 3$ and $g(4) = -5$. What is the value of $(f \circ g)(-4)$.

4. (3 points) Determine the domain of the given function.

$$f(x) = \frac{x^2 - 1}{3\sqrt{2} - \sqrt{50} - 2x^2}$$