## Name:

# MAC 1114 Section 074H Quiz 7 

Please show all of your work in a NEAT and ORGANIZED fashion.

1. (3 points) The sun is $42^{\circ}$ above the horizon. A man has a shadow of length 7 feet. How tall is he? You must sketch a diagram or picture to receive full credit. (Keep your answer exact.)
2. (3 points) Factor the expression.

$$
-\cos ^{2} x+6 \sin x-26
$$

3. (4 points) Perform the addition and use identities to rewrite so that the only trigonometric function used is cotangent.

$$
\frac{2}{\sec x+1}+\frac{-2}{\sec x-1}
$$

