Quiz 1
You must show all work to receive full credit!!

**Problem 1.** (2 points) A sled is pulled along a level path through snow by a rope. A 30 N force acting at an angle 60° above the horizontal moves the sled 80 meters. Find the work done by the force.

**Problem 2.** (2 points) Find parametric equations for the line passing through the point (2, 2, 4) and parallel to the vector \( \langle 3, 2, -1 \rangle \).

**Problem 3.** (6 points) Find the equation of the plane passing through the point (1, 5, 1) and perpendicular to the planes \( 2x + y - 2z = 2 \) and \( x + 3z = 4 \).