

**Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Problem 1** (8 points). A man is walking away from a lamppost with a light source 10m above the ground. The man is standing 20m away from the lamppost, and his shadow is 5m long. How tall is the man?

**Problem 2** (2 points). Solve  $x^2 + 25x + 100 = 0$ .