

Your Name:

Duration of the Quiz is 10 minutes. There are two problems, worth 20 points. Show all your work for full credit. Books, notes etc. are prohibited. Calculators are NOT permitted.

1. Find an equation of the set of all points equidistant from the points $A(-1, 5, 3)$ and $B(6, 2, -2)$. Describe the set.

2. Find a vector of length 2 whose direction is the opposite of the direction of the vector $\langle 6, 2, -3 \rangle$.