IM 2 Unit 3 Quiz 1 Name _____

1. Given the points $A(2,-3)$ and $B(-4,5)$.

   a. Find the distance between point A and point B.

   b. Find the midpoint of the segment that joins point A and point B.

   c. Find the equation of the line perpendicular to the segment that joins point A and point B and that passes through its midpoint.

   d. Find the distance of point B to the line to the line $y = -3x + 27$.