(X, Y, z)41) $d = \sqrt{(X_2 - X_1)^2 + (Y_2 - Y_1)^2 + (Z_2 - Z_1)^2}$ $d = \sqrt{(5-6)^2 + (-3--11)^2 + (3-7)^2}$ $d = \sqrt{(-1)^2 + (8)^2 + (-1)^2}$ d= v + 6 4 + 16 d= v = 1 = (9)

 $(42.) \left(\frac{X_{1} + X_{2}}{2}, \frac{Y_{1} + Y_{2}}{2}, \frac{Z_{1} + Z_{2}}{2} \right)$ $\begin{pmatrix} \frac{1+4}{2} & -\frac{5+4}{2} & \frac{3+4}{2} \\ (\frac{5}{2}, -\frac{1}{2}, \frac{2}{2}) = (25, -05, 35) \end{pmatrix}$

44.) 866) + 2/241) + 7(9) =-48+48+-63 --63



