

Q3

1)
$$t + 5 + 4 = \{P_1 + P_2\}^{\frac{1}{2}} + \{P_1 + P_3\}^{\frac{1}{2}} + \{P_1 + P_3\}^{\frac{1}{2}} + \{P_1 + P_3\}^{\frac{1}{2}} + \{P_1 + P_3\}^{\frac{1}{2}} + \{P_1 + P_3 + P_4\}^{\frac{1}{2}} + \{P_2 + P_3 + P_4\}^{\frac{1}{2}} + \{P_3 + P_4\}^{\frac{1}{2}} + \{P_3 + P_4\}^{\frac{1}{2}} + \{P_3 + P_4\}^{\frac{1}{2}} + \{P_4 + P_3 + P_4\}^{\frac{1}{2}} + \{P_4 + P_4\}^{\frac{$$