**Question 1**

Let be the amount of fund invested in fund i, where i = 1 (Capital Guaranteed Fund), 2 (Australian Bonds Fund), 3 (Australian Equities), 4 (Sustainable Growth Fund), 5 (International Equities).

Let be the deviation from target value of goal i. where i = 1 (maximize return), 2(minimize risk), 3 (minimum time to maturity).

Subject to:

The maximum rate of return is

Objectives: