- 6%, while the expected rate of return of the S&P 500 Index is 12%. The standard deviation of portfolio A is and B are 11% and 14%, respectively. The beta of A is 0.8 while that of B is 1.5. The T-bill rate is currently 8. Based on current dividend yields and expected capital gains, the expected rates of return on portfolios A 10% annually, while that of B is 31%, and that of the index is 20%.
- a. If you currently hold a market index portfolio, would you choose to add either of these portfolios to your holdings? Explain.
- b. If instead you could invest only in bills and one of these portfolios, which would you choose?

Q. CAPM:
$$E_{A} = \gamma_{b} + \beta_{b} (E_{M} - \gamma_{b}) = 10.8\%$$

$$= 6 + .8 (12-6) = 10.8\%$$

$$= 6 + 1.5 (12-6) = 15\%$$

$$= 6 + 1.5 (12-6) = 15\%$$

$$= 6 + 1.5 (12-6) = 15\%$$

$$= 6 + 1.5 (12-6) = 15\%$$

$$= 6 + 1.5 (12-6) = 15\%$$

$$= 6 + 1.5 (12-6) = 15\%$$

$$= 6 + 1.5 (12-6) = 15\%$$

$$= 14 - 15 = -1\%$$

b. Reward - vinitility rates = Stape of CAL =
$$S_A = \frac{11-6}{10} = .5 \text{ V}$$
 $S_B = \frac{14-6}{31} = .36$
 $S_M = \frac{12-6}{30} = .36$

i. Insert in A