```
(a) \beta p = Z_{14}^{2}W_{1} \cdot \beta z = \frac{1}{3}(0.9+16-11+0.6) = 0.867

(b) Var(\beta p) = \frac{1}{2}W_{1}^{2}x\delta_{12}^{2} + \beta_{1}^{2}\delta_{13}^{2} = (\frac{1}{3})^{2}x(0.01+0.015+0.011) + 0.867^{2}x0.014

= 0.01452

(c) Jahr propertion = (0.867^{2}x0.014)/(0.867^{2}x0.014+0.01)

= 51.28\%

10. Vf = 0.07, UM = 0.14, DM = 0.12

(a) Vf = 0.07, UM = 0.14, DM = 0.12

= 57.14\%

= 57.14\%

= 57.14\%

= 57.14\%

= 57.14\% of money should into the marked portolio.

= 42.86\% of money should into the risk-free # asset.

(b) Ur(\beta p) = 214W_{1}^{2}x = 314W_{1}^{2}x = 31
```