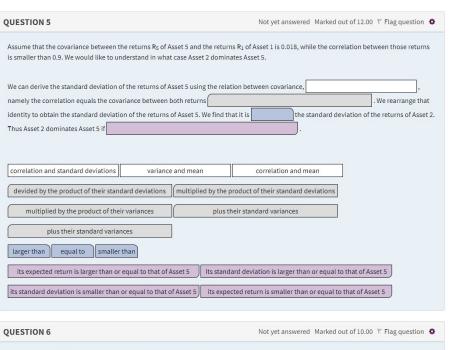
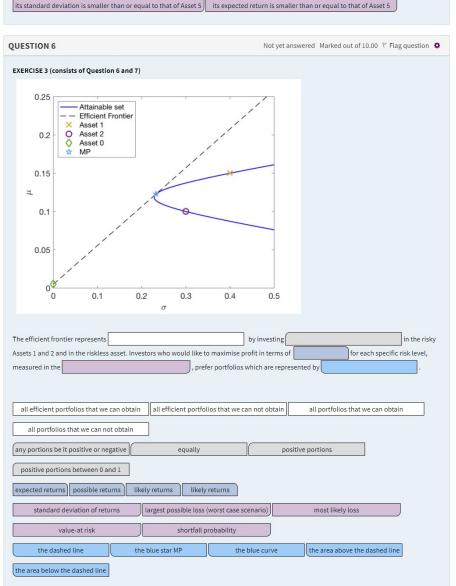


larger than or equal to that of Asset 2.





| Pescribe in your own words the portfolios represented on the blue line. Use no more than 50 words.  QUESTION 8  Not yet answered Marked out of 8.00 °F Flag question •  EXERCISE 4 (consists of Question 8,9,10 and 11)  You are handling a set of assets and delivering customized portfolios. You are given the following estimates. The distribution of the market portfolio's returns R <sup>NO</sup> g lepton by:  R <sup>M</sup> = {\( \begin{array}{l} \mu + \sigma_1, \\ \mu_1 \\ \mu_1, \\ \mu_1 \\ \mu_1, \\ \mu_1 \\ \mu_1, \\ \mu_1 \\ \mu_1, \\ \mu_1 \\ \mu_1, \\ \mu_2, \\ \mu_2 \\ \mu_2, \\\ \mu_2 \\ \mu_2, \\ \mu_2 \\ \mu_2, \\\ \mu_2 \\ \mu_2, \\\ \mu_2, \\\ \mu_2, \\\mu_2, \\\ \mu_2, \\\\mu_2, \\\\mu_2, \\\\mu_2, \\\\mu_2, \\\\\mu_2, \\\\\mu_2, \\\\\mu_2, \\\\\mu_2, \\\\\\\\mu_2, \\\\\\\mu_2, \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\  | QUESTION 7  | Not yet answered Marked out of 10.00 🖔 Flag question 🎄                    |
|---|---|---|
| EXERCISE 4 (consists of Question 8,9,10 and 11)  You are handling a set of assets and delivering customized portfolios. You are given the following estimates. The distribution of the market portfolio's returns R <sup>M</sup> is given by $R^M = \begin{cases} \mu_1 + \sigma_1, & \text{probability } 50\% \\ \mu_1 - \sigma_1, & \text{probability } 50\% \end{cases}$ The distribution of the minimum variance portfolio's returns R <sup>M,P</sup> is given by $R^{MVP} = \begin{cases} \mu_2 + \sigma_2, & \text{probability } 50\% \\ \mu_2 - \sigma_2, & \text{probability } 50\% \end{cases}$ with $\mu_1 = 0.2$ , $\mu_2 = 0.15$ , $\sigma_1 = 0.2$ and $\sigma_2 = 0.15$ .  The expected mean $\mu_N$ of the market portfolio's returns equals and $\sigma_1 = 0.2$ , and $\sigma_2 = 0.2$ , $\sigma_1 = 0.2$ , and $\sigma_2 = 0.2$ , $\sigma_1 = 0.2$ , $\sigma_2 = 0.2$ , $\sigma_2 = 0.2$ , $\sigma_3 = 0.2$ , |   |   |
| EXERCISE 4 (consists of Question 8,9,10 and 11)  You are handling a set of assets and delivering customized portfolios. You are given the following estimates. The distribution of the market portfolio's returns R <sup>M</sup> is given by  R <sup>M</sup> = { \( \mu_1 + \sigma_1 \)  probability 50% \\ \mu_1 - \sigma_1 \)  probability 50% \\  The distribution of the minimum variance portfolio's returns R <sup>MOP</sup> is given by  R <sup>MVP</sup> = \( \mu_2 + \sigma_2 \)  probability 50% \\  with \( \mu_1 = 0.1 \), \( \mu_2 = 0.15 \), \( \sigma_2 = 0.15 \)  probability 50% \\  with \( \mu_1 = 0.1 \), \( \mu_2 = 0.15 \), \( \sigma_2 = 0.15 \)  probability 50% \\  with \( \mu_1 = 0.1 \), \( \mu_2 = 0.15 \), \( \sigma_2 = 0.15 \)  The expected mean \( \mu_1 \) of the market portfolio's returns equals   and \( \mu_1 \mu_2 =  \mu_1 \mu_2 =  \mu_1 \mu_2 \\   \( \mu_2 = 0.15 \), \( \mu_1 = 0.15 \), \( \mu_2 = 0.15 \), \( \mu_  |   |   |
| You are handling a set of assets and delivering customized portfolios. You are given the following estimates. The distribution of the market portfolio's returns R <sup>NI</sup> is given by  R <sup>M</sup> = { \begin{align*} \mu_1 + \sigma_1,  \text{probability 50%} \\ \mu_1 - \sigma_1,  \text{probability 50%} \\ \mu_1 - \sigma_1,  \text{probability 50%} \\ \mu_2 - \sigma_2,  \text{probability 50%} \\ \text{with \$\mu_1 = 0.2, \$\mu_2 = 0.15, \$\sigma_1 = 0.2 \text{ and \$\sigma_2 = 0.15.} \\ \text{The expected mean \$\mu_N\$ of the market portfolio's returns equals   \text{, and standard deviation of the minimum variance portfolio's returns equal \$\mu_N \psi =  \text{ and \$\sigma_N \psi =  \text{.}} \\ \text{.} The expected mean and standard deviation of the minimum variance portfolio's returns equal \$\mu_N \psi =  \text{and \$\sigma_N \psi =  \text{.}} \\ \text{.} The expected mean and standard deviation of the minimum variance portfolio's returns equal \$\mu_N \psi =  \text{and \$\sigma_N \psi =  \text{.}} \\ \text{.}} \\ \text{ \$\sigma_N \text{.}} \\  \$\sigma  | QUESTION 8  | Not yet answered Marked out of 8.00 🕆 Flag question 🌣                     |
| You are handling a set of assets and delivering customized portfolios. You are given the following estimates. The distribution of the market portfolio's returns R <sup>NI</sup> is given by  R <sup>M</sup> = { \begin{align*} \mu_1 + \sigma_1,  \text{probability 50%} \\ \mu_1 - \sigma_1,  \text{probability 50%} \\ \mu_1 - \sigma_1,  \text{probability 50%} \\ \mu_2 - \sigma_2,  \text{probability 50%} \\ \text{with \$\mu_1 = 0.2, \$\mu_2 = 0.15, \$\sigma_1 = 0.2 \text{ and \$\sigma_2 = 0.15.} \\ \text{The expected mean \$\mu_N\$ of the market portfolio's returns equals   \text{, and standard deviation of the minimum variance portfolio's returns equal \$\mu_N \psi =  \text{ and \$\sigma_N \psi =  \text{.}} \\ \text{.} The expected mean and standard deviation of the minimum variance portfolio's returns equal \$\mu_N \psi =  \text{and \$\sigma_N \psi =  \text{.}} \\ \text{.} The expected mean and standard deviation of the minimum variance portfolio's returns equal \$\mu_N \psi =  \text{and \$\sigma_N \psi =  \text{.}} \\ \text{.}} \\ \text{ \$\sigma_N \text{.}} \\  \$\sigma  | EXERCISE 4 (consists of Question 8.9.10 and 11)   |   |
| The distribution of the minimum variance portfolio's returns R <sup>M/P</sup> is given by  R <sup>M/P</sup> = {   | You are handling a set of assets and delivering customized portfolio  | ss. You are given the following estimates. The distribution of the market |
| RMVP = \begin{align*} \mu_2 + \sigma_2, & probability 50% & probability 50% & with \mu_1 = 0.2, \mu_2 = 0.15, \sigma_1 = 0.2 and \sigma_2 = 0.15. \\  The expected mean \mu_M of the market portfolio's returns equals \begin{align*} \text{, and standard deviation \sigma_M equals} \\  \text{. The expected mean and standard deviation of the minimum variance portfolio's returns equal \mu_MP = \begin{align*} \text{ and \sigma_MP = } \\  \text{0} & 2.5% & 5% & 7.5% & 10% & 12.5% & 15% & 17.5% & 20% & 22.5% & 25% & 27.5% & 30% & 32.5% & 35% & 37.5% & 40% \\  42.5% & 45% & 47.5% & 50% \\  \text{42.5% & 45% & 47.5% & 50% \\  \text{43.5% & 45% & 47.5% & 50% \\  \text{44.5% & 45% & 47.5% & 50% \\  \text{45.5% & 45% & 47.5% & 50% \\  \text{45.5% & 45% & 47.5% & 50% \\  \text{40.5% & 47.5% & 30% & 32.5% & 35% \\  \text{40.5% & 47.5% & 30% & 32.5% & 35% \\  \text{40.5% & 47.5% & 30% & 32.5% & 30% \\  \text{40.5% & 47.5% & 30% & 32.5% & 30% \\  \text{40.5% & 47.   | $R^{M} = \begin{cases} \mu_{1} + \sigma_{1}, & \text{probability } 50\% \\ \mu_{1} - \sigma_{1}, & \text{probability } 50\% \end{cases}$  |   |
| with μ₁ = 0.2, μ₂ = 0.15, σ₁ = 0.2 and σ₂ = 0.15.  The expected mean μ <sub>M</sub> of the market portfolio's returns equals, and standard deviation σ <sub>M</sub> equals The expected mean and standard deviation of the minimum variance portfolio's returns equal μ <sub>M/P</sub> =  0 2.5% 5% 7.5% 10% 12.5% 15% 15% 17.5% 20% 22.5% 25% 25% 27.5% 30% 32.5% 35% 37.5% 40%  42.5% 45% 47.5% 50%  Not yet answered Marked out of 7.00 Flag question \$\frac{1}{2}\$  The return of the riskless asset is 1%.  A client demands for a portfolio tailored to his needs. He is willing to invest in any assets available but not to go short in the riskly asset (i.e. to invest negative portions in any of the riskly assets). Their only restrictions are that the portfolio should be efficient and maximise their expected utility. Their utility function is the logarithm.  What is the weight w <sub>M</sub> to invest in the market portfolio?  State the results rounded to two decimals. (So e.g. if your result is 0.0345 then state 0.03.)  Answer:  QUESTION 10  Not yet answered Marked out of 2.00 F Flag question \$\frac{1}{2}\$  The rest, i.e. 1 - w <sub>M</sub> is invested in  | The distribution of the minimum variance portfolio's returns R <sup>MVP</sup> is given by   |   |
| The expected mean µM of the market portfolio's returns equals, and standard deviation on equals The expected mean and standard deviation of the minimum variance portfolio's returns equal µM/P =  0  | $R^{MVP} = \begin{cases} \mu_2 + \sigma_2, & \text{probability } 50\% \\ \mu_2 - \sigma_2, & \text{probability } 50\% \end{cases}$  |   |
| QUESTION 9  Not yet answered Marked out of 7.00 F Flag question Converted to the riskless asset is 1%.  A client demands for a portfolio tailored to his needs. He is willing to invest in any assets available but not to go short in the risky asset (i.e. to invest negative portions in any of the risky assets). Their only restrictions are that the portfolio should be efficient and maximise their expected utility. Their utility function is the logarithm.  What is the weight w <sub>M</sub> to invest in the market portfolio?  State the results rounded to two decimals. (So e.g. if your result is 0.0345 then state 0.03.)  Answer:  QUESTION 10  Not yet answered Marked out of 2.00 F Flag question Converted to the risk free asset an arbitrary risky asset   | The expected mean $\mu_{\text{M}}$ of the market portfolio's returns equals   |   |
| The return of the riskless asset is 1%.  A client demands for a portfolio tailored to his needs. He is willing to invest in any assets available but not to go short in the risky asset (i.e. to invest negative portions in any of the risky assets). Their only restrictions are that the portfolio should be efficient and maximise their expected utility. Their utility function is the logarithm.  What is the weight w <sub>M</sub> to invest in the market portfolio?  State the results rounded to two decimals. (So e.g. if your result is 0.0345 then state 0.03.)  Answer:  QUESTION 10  Not yet answered Marked out of 2.00 F Flag question  The rest, i.e. 1 – w <sub>M</sub> is invested in  the risk free asset an arbitrary risky asset  |   | 20% 22.5% 25% 27.5% 30% 32.5% 35% 37.5% 40%                               |
| The return of the riskless asset is 1%.  A client demands for a portfolio tailored to his needs. He is willing to invest in any assets available but not to go short in the risky asset (i.e. to invest negative portfons in any of the risky assets). Their only restrictions are that the portfolio should be efficient and maximise their expected utility. Their utility function is the logarithm.  What is the weight w <sub>M</sub> to invest in the market portfolio?  State the results rounded to two decimals. (So e.g. if your result is 0.0345 then state 0.03.)  Answer:  OUESTION 10  Not yet answered Marked out of 2.00 F Flag question  The rest, i.e. 1 - w <sub>M</sub> is invested in  the risk free asset  an arbitrary risky asset   | OUESTION 9  | Not yet answered Marked out of 7.00 ♥ Flag question ❖                     |
| QUESTION 10  Not yet answered Marked out of 2.00 ₱ Flag question ❖  The rest, i.e. 1 - w <sub>M</sub> is invested in  the risk free asset an arbitrary risky asset  | The return of the riskless asset is 1%.  A client demands for a portfolio tailored to his needs. He is willing to invest in any assets available but not to go short in the risky asset (i.e. to invest negative portions in any of the risky assets). Their only restrictions are that the portfolio should be efficient and maximise their expected utility. Their utility function is the logarithm.  What is the weight w <sub>M</sub> to invest in the market portfolio? |   |
| The rest, i.e. 1 – w <sub>M</sub> is invested in  the risk free asset an arbitrary risky asset  | Answer:   |   |
| the risk free asset an arbitrary risky asset  | QUESTION 10   | Not yet answered Marked out of 2.00 P Flag question 🌼                     |
|   | The rest, i.e. 1 – w <sub>M</sub> is invested in  |   |
| the minimum variance portfolio related to all risky assets gold   | the risk free asset   | an arbitrary risky asset  |
|   | the minimum variance portfolio related to all risky assets  | gold  |

