STATISTICS CLASS PROBLEM

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Suppose the return distributions for two risky assets are as follows:

State	p_s	$r_{a,s}$	$r_{b,s}$
1	1/3	-3%	36%
2	1/3	9%	-12%
3	1/3	21%	12%

1. Calculate the expected returns for assets a and b.

- 2. Calculate the variances and standard deviations for assets a and b.
- 3. Calculate the covariance and correlation between assets a and b.
- 4. Calculate the expected return and standard deviation for an equally weighted portfolio consisting of asset a and b.
- 5. Determine the least risky combination of assets a and b and calculate the expected return and standard deviation for such a portfolio.