Lecture 07 Worksheet (ECON211), AY 2025-26 [Date: 29 Jul 2025]

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$$18P_F - P_B = 87$$

$$-2P_F + 36P_B = 98$$

Express this system of equations in matrix form, and hence find the equilibrium prices.

2. Express the following sums in summation form.

i.
$$2 + 5 + 10 + 17$$

ii.
$$0 + 2 + 6 + 12$$

3. Simple AP & GP Problems
a) The first term of an AP is 5, and the common difference is 4. Find the 10th term and the sum of the first 20 terms.
b) The first three terms of an AP are 12, 9, 6. Find the 7th term and the sum of the first seven terms.
c) The first term of a GP is 3, and the common ratio is 2. Find the 8th term and the sum of the first 12 terms.
d) The first three terms of a GP are 81, 27, 9. Find the fifth term and the sum of the first five terms.
4. You invest ₹1000 in a financial product that promises 12% annual interest rate. Interest is accrued monthly to you account. What will be the balance 2 years later under the following scenarios? a) simple interest rate; b) compound interest rate; c) continuous compounding Compute the EAR under each of the above scenarios.