```
Clock arithmetic is seen much like school extitumeties, in particular
        i) a b b a
                                                                                 // commente
              ii) (a.b) x c : a · (b · c)
              (i') (b) c = a (be)
              (i) a (b + e) = ab · ac
  What about so or thanks System where (1) hads?
  MATRIX ARITHMETIC
      A certix is (that the will know the second s
                              Ly arranged really into some a columns.

He each some and column have the same len
         1 2 -4 2 2 3 matrix
                                                                                                        ( row vector)
                  (1 2 -4 E C) 1 = 5 mateix
  Two man motives are added by adding corresponding entires, and the result is at mina.
                                                                                                                                                                                                                                         y only matrices of the same of mensions
                               (5 7 1) (-1 -2 1) (4 5 14)
                as much matrix A, we write -A to denote the matrix obtained from A by matriplying every entry by -1.
                                       A ( - 2 ) -A ( - 2 ) // Note: any matrix A midded to analist -A.

( - 2 ) // Note: any matrix A midded to analist -A.

( - 2 ) // Creety entry will be egan to O. ( and still has the same dimensions)
   MULTIPLYING MATRICES
                    Multiplying a ten rector (Len multis) by a common vector (axt multis)
                           let R + (a, a, ..., a,) be a new vector of length of, and bet C (b) be a column vector of length of
                  We define RC = a.b. + a.b. + a.b. + . + a.b. ]-
                          A: (1, -2) - can be regarded as a collection of cours.
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