**6C Determinants**

Identity Matrices:

I2

I3

Determinants for a 2x2 Matrix

1. Given that , find
2. Given that is singular, find the value of p if (singular means det**A** = 0)

Determinants for a 3x3 Matrix

1. Find the minor of the element 2 in the matrix:
2. Find the value of

Using a calculator to find determinants:

1. The matrix , where k is a constant.
2. Find in terms of k
3. Given that A is singular, find the possible values of k