Linear Algebra
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Exam 1
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1. Solve the following system of linear equations by first finding A inverse.

$x + 2y + 2z = -1$
$x + 3y + z = 4$
$x + 3y + 2z = 3$

2. Find the determinant of the following matrix

```
 3  1  8  6
-1  2  0  4
 1  6  0 -2
 3 -3  8  1
```

3. Solve the following system of linear equations by Cramer's Rule.

$2x + 6y = 8$
$11x - y = -7$