

Midterm 3 Math 484.2 April 20, 2012.

5 problems, 15 pts each.

Name _____

Write your name above and on both sides of every sheet you submit.

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1. Solve the matrix game

$$\begin{array}{cccc} 0 & 1 & -1 & 2 \\ 1 & -1 & 1 & 0 \\ -1 & -1 & -2 & 0 \\ -1 & 1 & -2 & 1 \end{array}$$

2. Solve the matrix game

$$\begin{array}{ccccc} 2 & 1 & 2 & 3 & 3 \\ 3 & 3 & 2 & 1 & 2 \\ 2 & 2 & 0 & 0 & 1 \end{array}$$

3. $2(x-1)^2 + (x-2)^2 + (x-6)^2 \rightarrow \min.$

4. $2|x-1| + |x-2| + |x-6| \rightarrow \min.$

5. $\max(2|x-1|, |x-2|, |x-6|) \rightarrow \min.$