

## SJSU, MATH 70, Plamen Koev, Practice Midterm 3

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1. Find the maximum value of  $x + 3y$  on the region defined by  $x \leq 0, y \leq 0, x + y \geq -3, 2x + y \geq -5$ .
2. Show that  $[(p \rightarrow q) \rightarrow p] \Rightarrow (q \rightarrow p)$ .
3. Of 100 people surveyed, 50 own a car, 50 own a TV, and 50 own both. How many own neither?