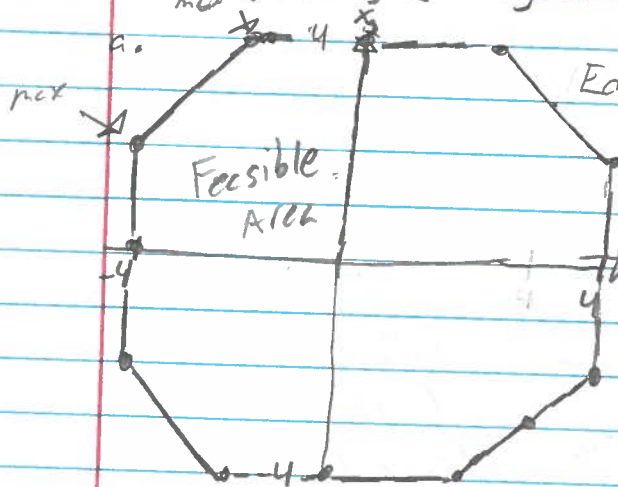


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Q1. max?

$$x_1 \geq -4, x_1 \leq 4, x_2 \geq -4, x_2 \leq 4, x_1 + x_2 \leq 6, x_1 + x_2 \geq 6, x_1 - x_2 \leq 6, x_1 - x_2 \geq -6$$



Edges separate feasible and nonfeasible area

b. find optimal soln at $(-4, 2)$

$$\text{Max } -2x_1 + x_2$$

c. find soln for $(-4, 2)$ and $(-2, 4)$ are solutions (optimal)

$$\text{Max } -2x_1 + x_2$$