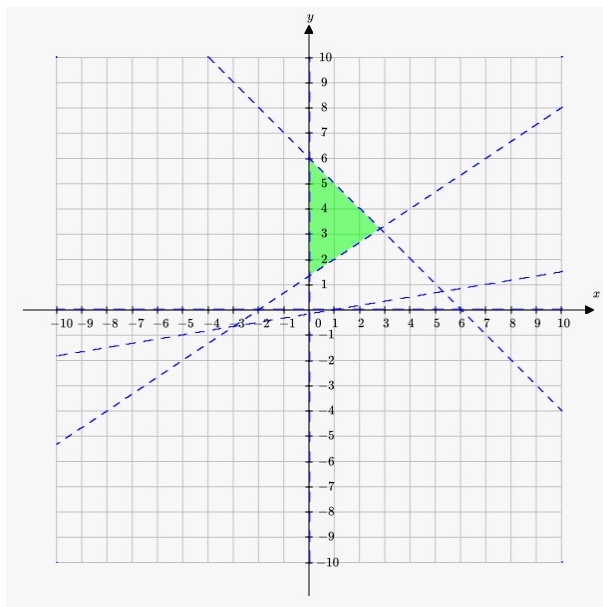
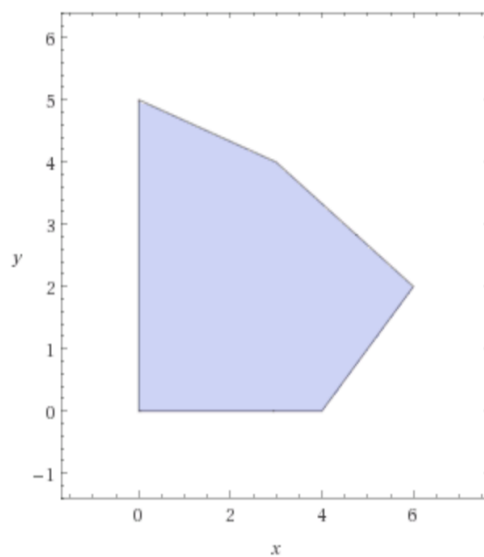


Problem 8.1. We graph the feasible set below. To find the optimizer, plot the objective function over the feasible set and find the maximum point. In this case, the optimizer is at $(14/5, 16/5)$ and the objective function has a value of $6/5$.

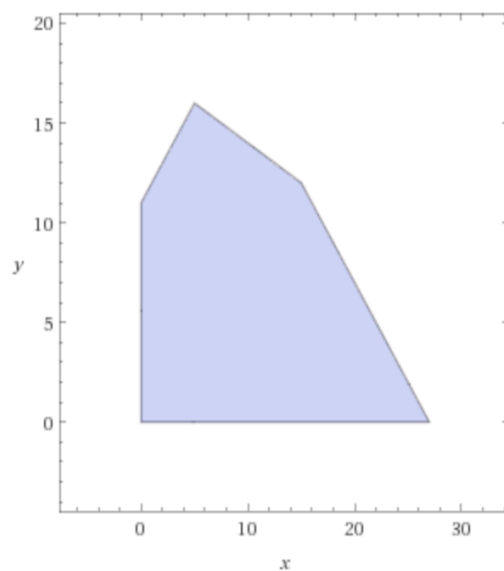


Problem 8.2.

(i) We graph the feasible set below.



(ii) We graph the feasible set below.



Problem 8.5.

Problem 8.7.

Problem 8.13.

Problem 8.17.

Problem 8.18.

Problem 9.3.

Problem 9.6.

Problem 9.7.

Problem 9.10.