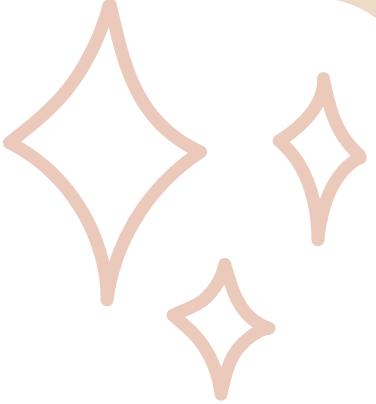# Assignment 2-1

Problem 1: You're trying to figure out the price of apples, bananas, and cherries at the store. You go three days in a row, and bring this information.
- **Day 1:** You bought an apple, a banana, and a cherry, and paid $10.
- **Day 2:** You bought an apple, two bananas, and a cherry, and paid $15.
- **Day 3:** You bought an apple, a banana, and two cherries, and paid $12.

How much does each fruit cost?

Please solve this problem using the Matrix Technique.

Two Power Line Problem

origin

Total cost of connecting to both power lines:

$$(x - a)^2 + (x - b)^2$$

$(x - a)^2$

$(x - b)^2$

$x - a$

$b - x$

x