- 1. She weighs three X objects and one Y object and gets a total weight of 1100 grams.
- 2. She weighs one X object and three Y objects and gets a total weight of 1050 grams.

Which of the following linear systems describes the experiment above?

$$\begin{cases} 3x + y = 1100 \\ x + 3y = 1050 \end{cases}$$

0

$$egin{cases} 3x+3y=1100\ 3x+3y=1050 \end{cases}$$

0

$$\begin{cases} 3x + y = 1050 \\ x + 3y = 1100 \end{cases}$$

0

$$\begin{cases} 3x = 1100 \\ 3y = 1050 \end{cases}$$

2. Which of the following matrices can be used to determine the singularity of the system of equations below?

1 point

$$egin{cases} 2x+3y=15 \ 2x+4y=16 \end{cases}$$

$$\begin{bmatrix} 2 & 3 \\ 2 & 4 \end{bmatrix}$$

$$\begin{bmatrix} 3 & 15 \\ 4 & 16 \end{bmatrix}$$

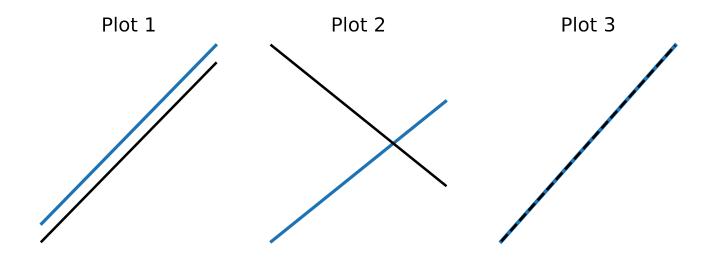
0

$$\begin{bmatrix} 2 & 15 \\ 2 & 16 \end{bmatrix}$$

$$\begin{bmatrix} 2 & 2 \\ 3 & 4 \end{bmatrix}$$

3. Consider the next three plots below.

1 point



Now, consider the next three system of equations below.

System 1

$$\begin{cases} 3x - 2y = \\ 3x$$

$$\int 3x + 3y = 2$$

$$\int x + 3y = 4$$

Each plot represents one of the systems described. Choose the correct option.

- Plot 1 represents System 3
 - Plot 2 represents System 2
 - Plot 3 represents System 1
- Plot 1 represents System 3
 - Plot 2 represents System 1
 - Plot 3 represents System 2
- Plot 1 represents System 1
 - Plot 2 represents System 3
 - Plot 3 represents System 2
- Plot 1 represents System 1
 - Plot 2 represents System 2
 - Plot 3 represents System 3
- Plot 1 represents System 2
- Plot 2 represents System 1