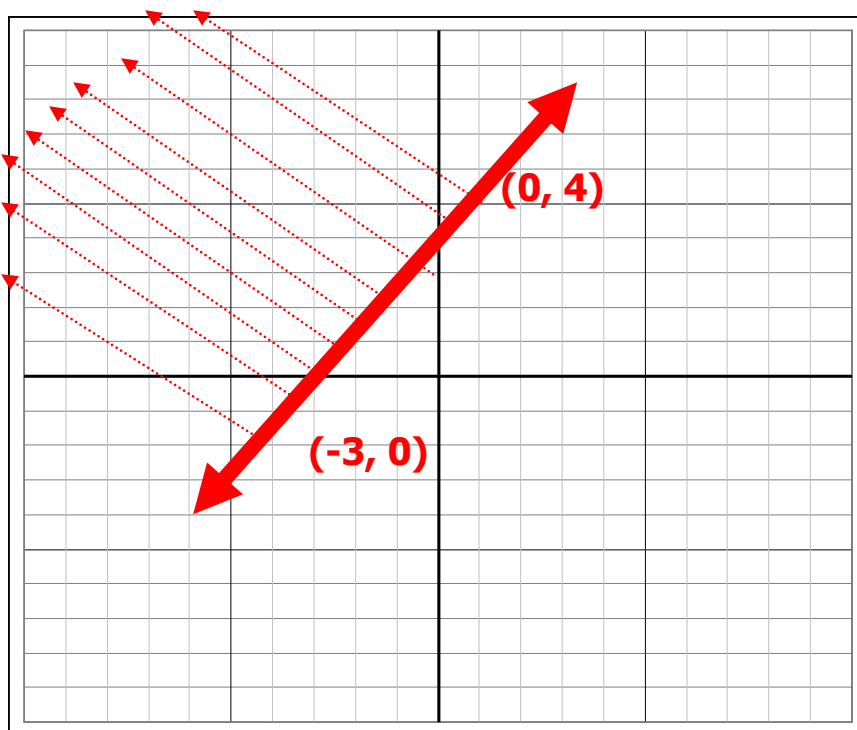


NAME Solutions

1. Graph $-8x + 6y \geq 24$. Your graph must include:
 - A. The coordinates of the y-intercept. $(0, 4)$
 - B. The coordinates of the x-intercept. $(-3, 0)$
 - C. The appropriate shading for the inequality.



2. A special diet for a farm animal is to contain at least 150 units of protein. Each gram of food A contains 6 units of protein and each gram of Food B contains 4 units of protein. How many grams of each type of food should the farmer mix so that the animal gets at least 150 units of protein?

Let $x = \#$ of grams of food A and $y = \#$ of grams of food B.

Write a linear inequality for the protein requirement.

$$\begin{aligned}
 6x + 4y &\geq 150 \\
 x &\geq 0 \\
 y &\geq 0
 \end{aligned}$$