

Moe, Larry, and Curly are each pulling on a mule with a vector force described as

$$M = -7i - 4j$$

$$L = -5i + 6j$$

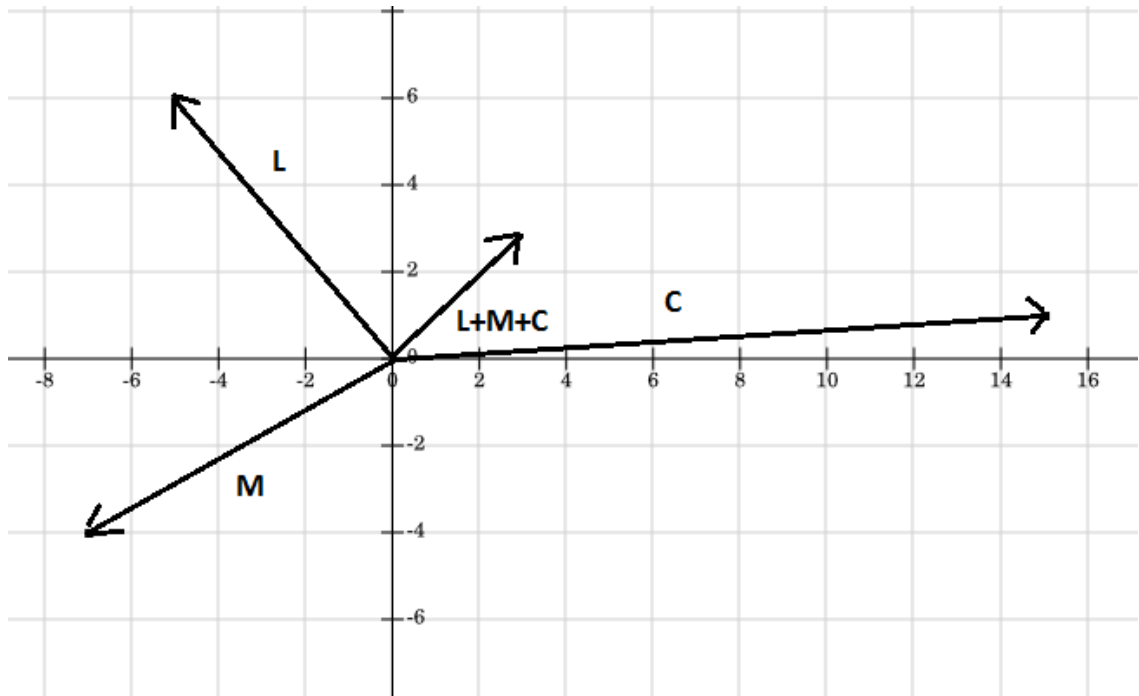
$$C = 15i + 1j$$

Find the Resultant by putting into i j format and find the Magnitude of the resultant force on the box. Draw all vectors. Now describe the Bearing of the Result an using NSEW and the corresponding directional angle.

$$M + L + C = (-7i - 4j) + (-5i + 6j) + (15i + 1j) = (-7 - 5 + 15)i + (-4 + 6 + 1)j = 3i + 3j$$

Magnitude equals:

$$M = \sqrt{3^2 + 3^2} = 3\sqrt{2}$$



In NSEW it is north-east direction.