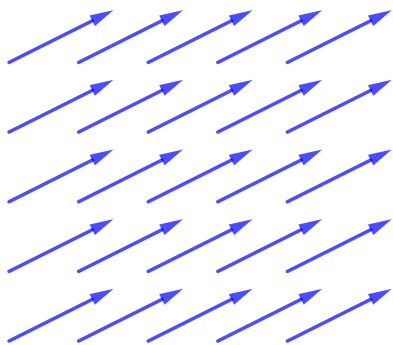Draw (by hand) the following vector fields:

- $\vec{v} = 2\,\hat{x} + \hat{y}$

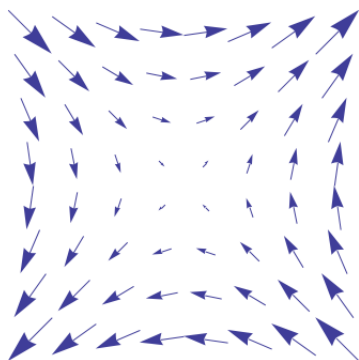- $\vec{H} = y\,\hat{x} + x\,\hat{y}$

Solution   *(Most graphics programs that draw vector fields **center** the vectors at the point at which they live, instead of drawing them correctly with their **tail** at that point. In addition, such programs usually **(re)scale** the vectors so that they fit on the graph. Please keep these "features" in mind when interpreting these graphs.)*

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$$\vec{v} = 2\,\hat{x} + \hat{y}$$

-

$$\vec{H} = \beta y\,\hat{x} + \beta x\,\hat{y}$$