

Use the MATLAB code provided to plot the given vector field. How would you describe the behavior of these vector fields?

- $x \hat{x} + 2y \hat{y}$
- $-x \hat{x} + \hat{y}$
- $y \hat{x} - 2 \hat{y}$

```
[x,y]=meshgrid(-5:0.5:5,-5:0.5:5);
```

U= \hat{x} -component;
V= \hat{y} -component;

```
quiver(x,y,U,V)
```