

Matching Exercise

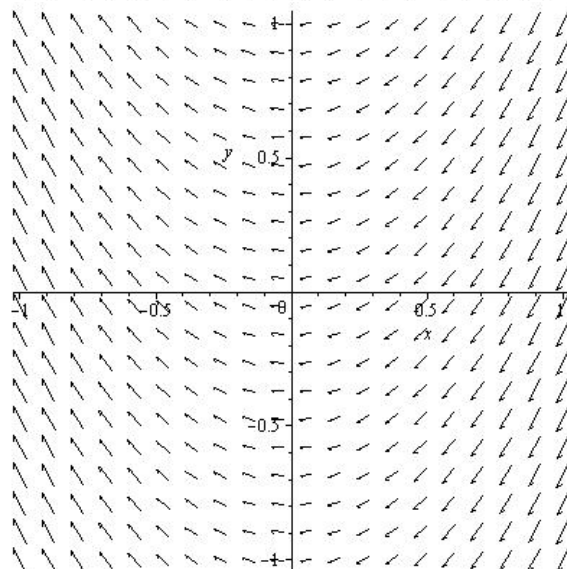
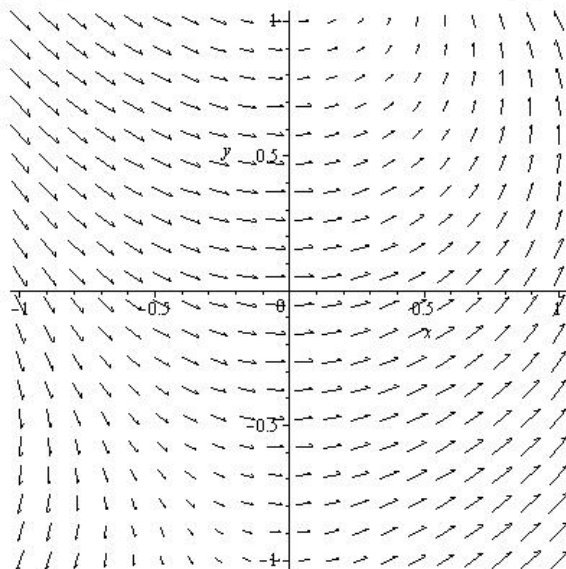
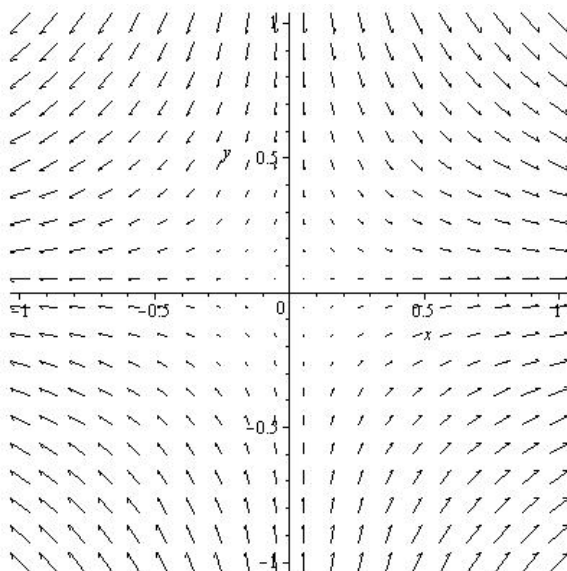
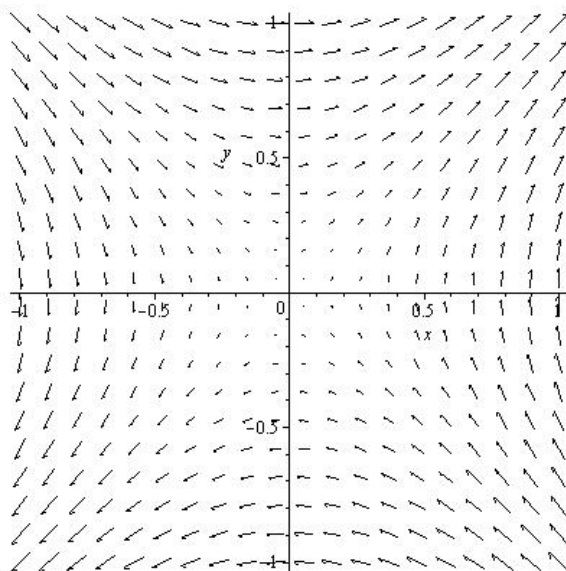
Match the graph with the vector field. Here are the four possible vector fields:

$$\mathbf{F}_1(x, y) = \langle -1/2, -x \rangle$$

$$\mathbf{F}_2(x, y) = \langle y, x \rangle$$

$$\mathbf{F}_3(x, y) = \langle \cos(x + y), x \rangle$$

$$\mathbf{F}_4(x, y) = \langle x, -y \rangle$$



SOLUTION: The functions are, in order:

$$F_2(x, y) = \langle y, x \rangle \quad F_4(x, y) = \langle x, -y \rangle \quad F_3(x, y) = \langle \cos(x+y), x \rangle \quad F_1(x, y) = \langle -1/2, -x \rangle$$