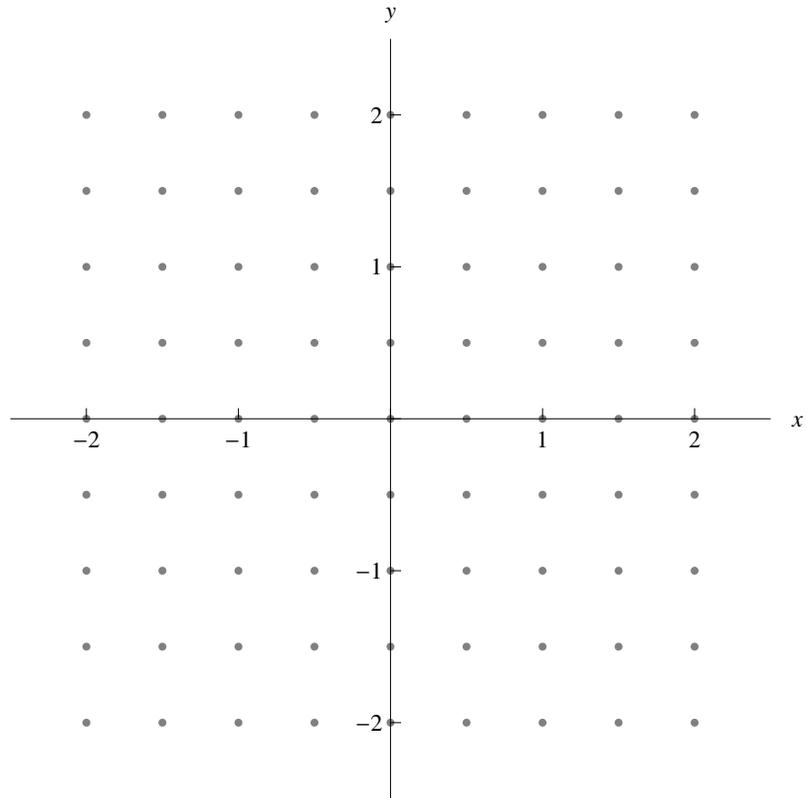## Tangent vector field plots

For each of the following, use the given grid to sketch a tangent vector field for the given 2×2 system of first-order differential equation on the region with $-2 \leq x \leq 2$ and $-2 \leq y \leq 2$.
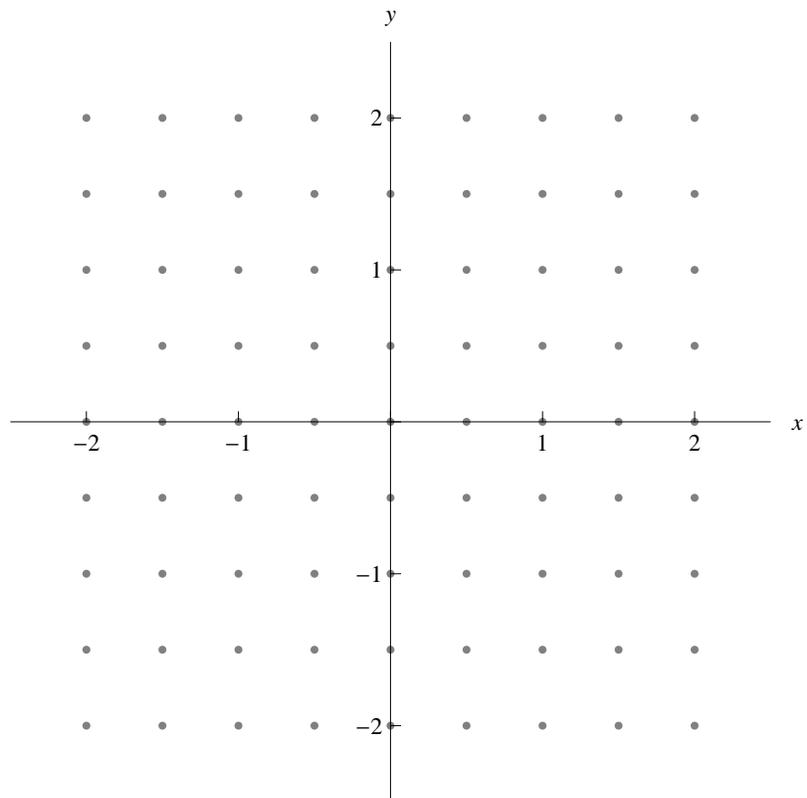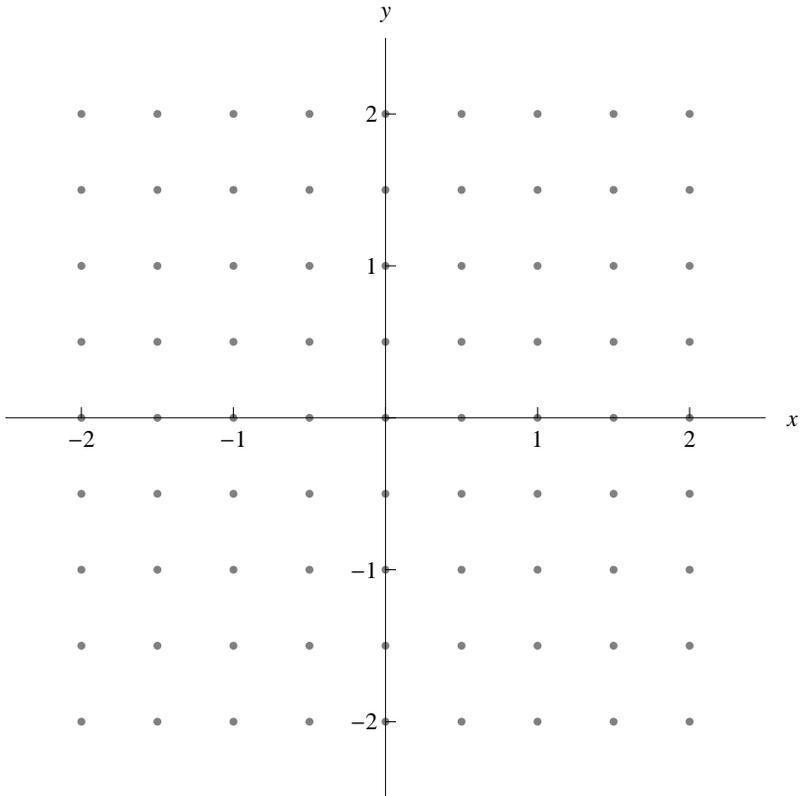
1.
$$\frac{dx}{dt} = 1$$
$$\frac{dy}{dt} = x$$

2.
$$\frac{dx}{dt} = x$$
$$\frac{dy}{dt} = y$$

3.

$$\frac{dx}{dt} = y$$

$$\frac{dy}{dt} = x$$

4.

$$\frac{dx}{dt} = -y$$

$$\frac{dy}{dt} = x$$