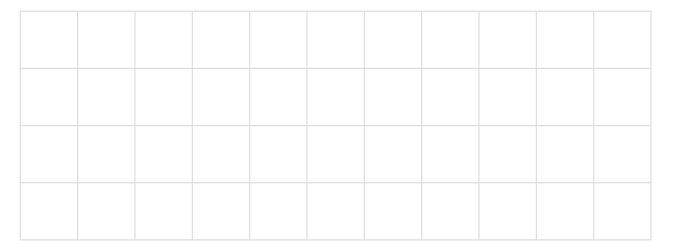
Vectors

1 Problem I

A vector $\vec{\mathbf{F}}$ has a magnitude of 2 and makes an angle of 30° with the x-axis (with positive rotation counterclockwise).

- 1. Draw $\vec{\mathbf{F}}$.
- 2. Write $\vec{\mathbf{F}}$ in the form $F_x \hat{\imath} + F_y \hat{\jmath}$.



2 Problem II

Given $\vec{\mathbf{F}} = 3\hat{\imath} - 4\hat{\jmath}$,

- 1. Draw $\vec{\mathbf{F}}$.
- 2. Compute F.
- 3. The angle $\vec{\mathbf{F}}$ makes with respect to the x-axis (with positive rotation counterclockwise).

