1. For the given vector and coordinate system, draw the x- and y-components of the vector. Make certain that you have both the lengths and the directions clearly and correctly indicated.

(a) \[y \quad x\]

(b) \[y \quad x\]

(c) \[y \quad x\]

(d) \[y \quad x\]

(e) \[y \quad x\]

(f) \[y \quad x\]
2. For each set of vectors below, write a vector equation that shows how they are related, such as \[ \mathbf{r}_A - \mathbf{r}_B = \mathbf{r}_C \]. (I have separated the arrow tips if they overlap so you can clearly see where the arrows are.)