Magnitude: Length of hypotenuse
Direction: Angle of rotation
\[
\sin 30 = \frac{y}{90}
\]
\[
y \text{ at } 90^\circ \sin 30 = y = 45 \text{ ft}
\]
\[
x \text{ at } 90^\circ \cos 30 = x = 77.94 \text{ ft/sec}
\]
-12E, 14, 20, 22, 30, 36, 40, 44, 46, 50