

Vectors and Bearings

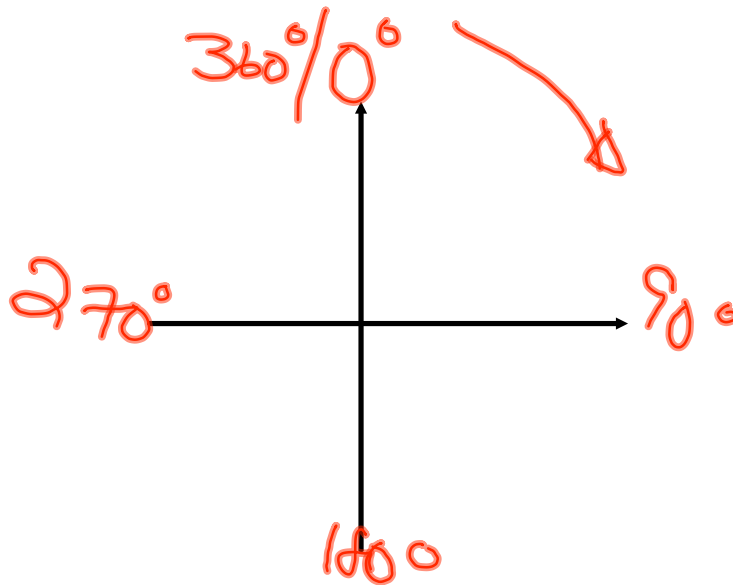
Vector: A directed line that has magnitude and direction.

Mag Dir
30 km/h North

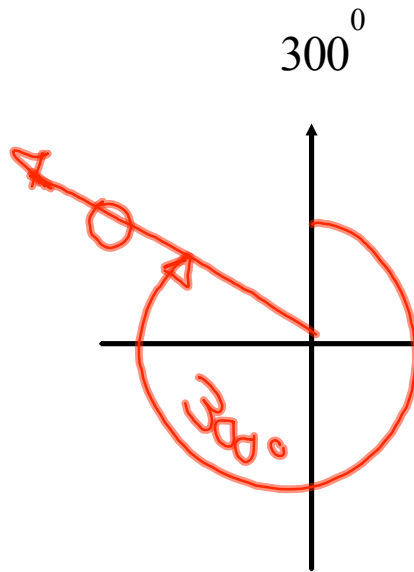
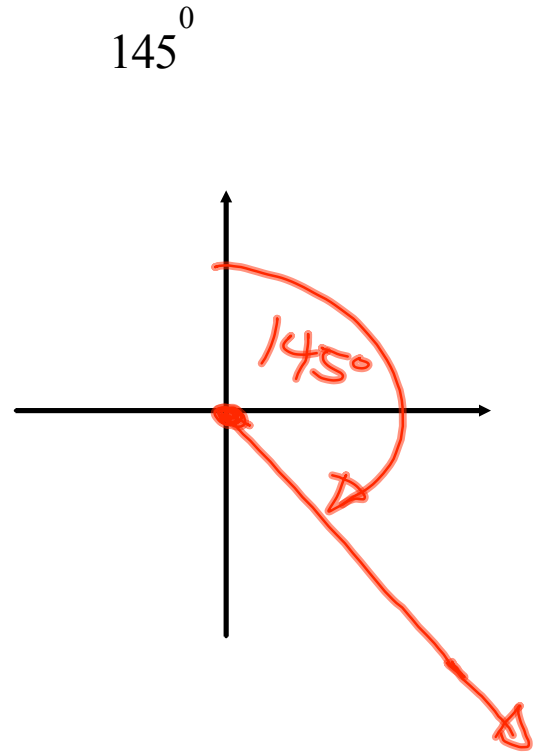
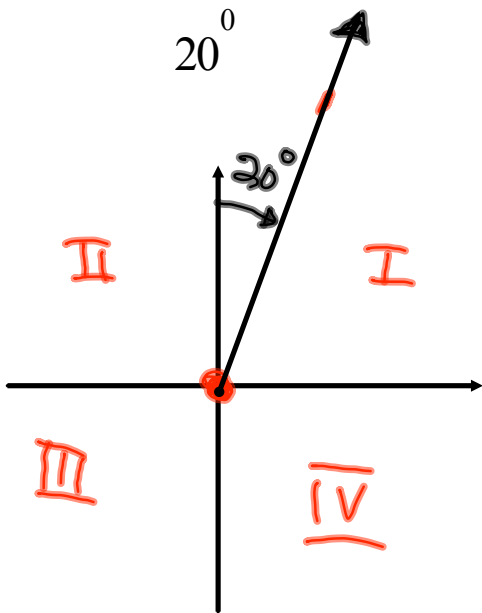
150 km [150°]

Answers.

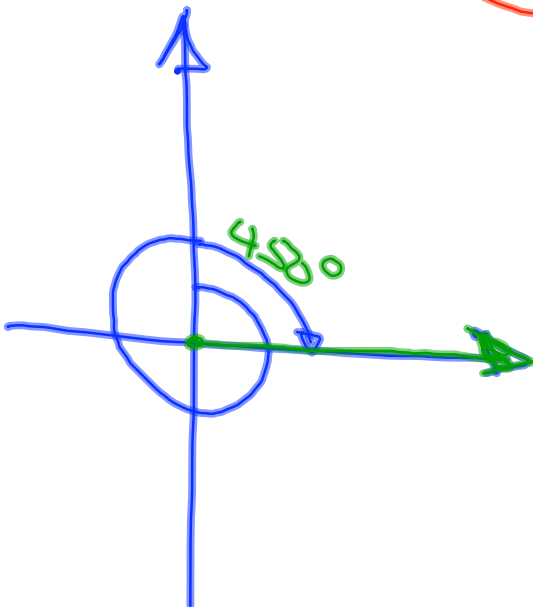
Bearing: An angle measured in a clockwise direction. North is 0°



Draw the following bearing angles



$$\begin{array}{r} 450^\circ \\ - 360 \\ \hline 90 \end{array}$$

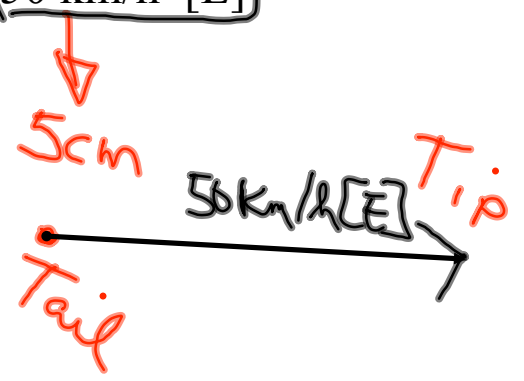


Vectors Drawn to Scale

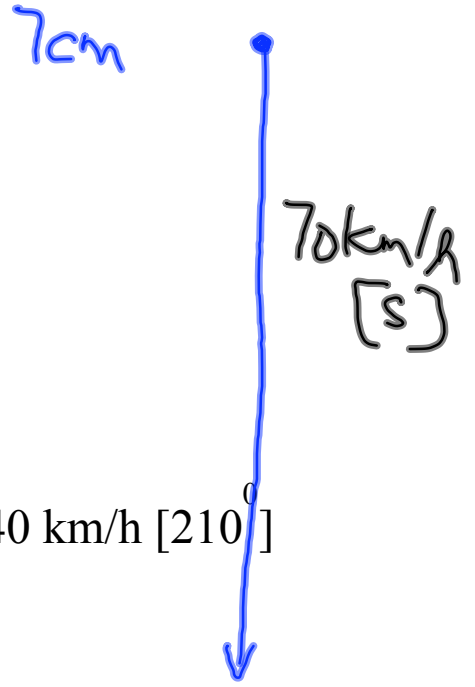
Use the following scale to draw the following vectors

1 cm = 10 km/h *a*

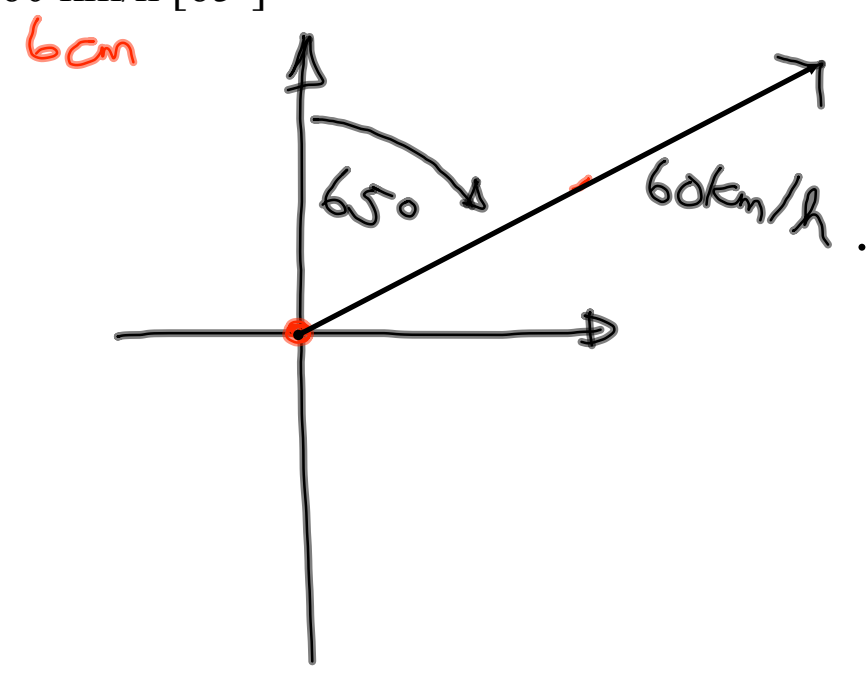
50 km/h [E]



70 km/h [S]



60 km/h [65°]

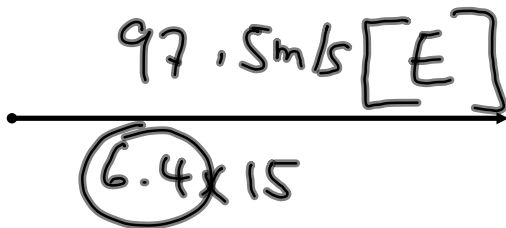


40 km/h [210°]



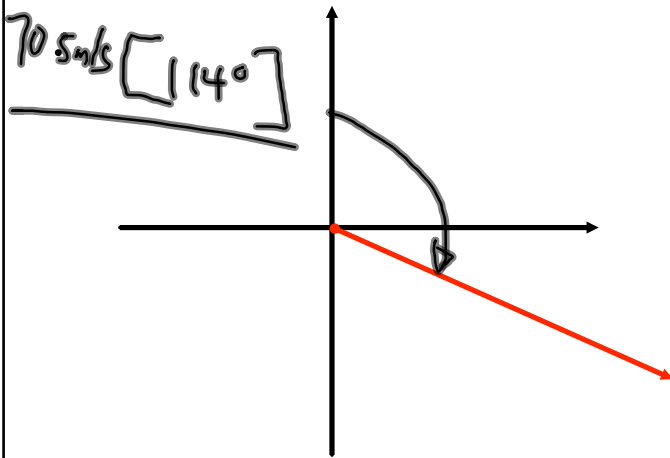
Use the given scale to find the magnitude and direction of each vector

$$1 \text{ cm} = 15 \text{ m/s}$$



8 cm

120 m/s [S]



Scalar: If an item has only magnitude or only direction it is called a scalar.

50 km/h

[135°]

Pg. 307

1, 2, 3, 4

5abc