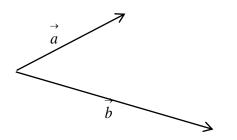
Use the figure to the right. $\,$ is the angle formed by the two vectors.

Find: (a) the magnitude of the resultant

(b) the measure of the angle that the resultant make with $\,a\,$



Round answers to the nearest hundredth.

$$\left\| \overrightarrow{a} \right\| = 7cm$$

1.
$$\|\vec{b}\| = 11cm$$

$$\theta = 73^{\circ}$$

$$\left\| \overrightarrow{a} \right\| = 8 ft$$

$$2. \quad \left\| \overrightarrow{b} \right\| = 2ft$$

$$\theta = 41^{0}$$

$$\left\| \stackrel{\rightarrow}{a} \right\| = 9in$$

3.
$$\|\overrightarrow{b}\| = 20in$$

$$\theta = 163^{\circ}$$

1)
$$\|\vec{a} + \vec{b}\| = 14.66cm$$
; $B = 45.87^{\circ}$ 2) $\|\vec{a} + \vec{b}\| = 9.6 ft$; $B = 7.85^{\circ}$

2)
$$\|\vec{a} + \vec{b}\| = 9.6 ft$$
; $B = 7.85^\circ$

3)
$$\|\vec{a} + \vec{b}\| = 11.69in$$
; $B = 150.06^{\circ}$