$\qquad$

Use the figure to the right. $\theta$ 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 $\vec{a}$


Round answers to the nearest hundredth.

$$
\|\vec{a}\|=8 f t
$$

2. $\|\vec{b}\|=2 f t$

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

$$
\|\vec{a}\|=9 i n
$$

3. $\|\vec{b}\|=20 i n$ $\theta=163^{0}$

## answers:

1) $\|\vec{a}+\vec{b}\|=14.66 \mathrm{~cm} ; B=45.87^{\circ}$
2) $\|\vec{a}+\vec{b}\|=9.6 f t ; B=7.85^{\circ}$
3) $\|\vec{a}+\vec{b}\|=11.69 \mathrm{in} ; B=150.06^{\circ}$
