$$\chi = 5\cos(120^\circ) = -2.50$$
 $\gamma = 5\sin(120^\circ) = 4.33$

$$\vec{V} = \langle -2.60, 4.33 \rangle = -2.50 \hat{\lambda} + 4.33 \hat{j}$$

$$V = 500 \text{ Lbs}$$
 Find resultant
 $V = 500 \cos 30^{\circ} \hat{L} + 500 \sin 30^{\circ} \hat{J}$
 $V = 45^{\circ}$ $V = 200 \cos (45^{\circ}) \hat{L} + 200 \sin (-45^{\circ}) \hat{J}$
 $V = 433.01, 250 \rangle$
 $V = 433.01, 250 \rangle$

$$\|\vec{u} + \vec{v}\| = 584.60$$
 $\Theta = Tan'(\frac{108.58}{574.43}) = 10.7°$

11.3
$$\pm 15$$
 Find angle between $\vec{u} = \langle 1, 1, 1 \rangle$ and $\vec{\nabla} = \langle 2, 1, -1 \rangle$

$$||\vec{u}|| = \sqrt{1+1+1} = \sqrt{3}$$
 $||\vec{v}|| = \sqrt{4+1+1} = \sqrt{6}$

$$\cos \theta = \frac{2}{(13)(\sqrt{c})} = \frac{2}{\sqrt{1x}} = \frac{2}{3\sqrt{12}}$$