$$V = \langle 3c, 4c \rangle (3c)^{2} + (4c)^{2} = ||V|| = 7$$

$$25c^{2} = 7$$

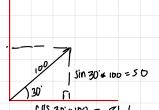
$$5c = 7$$

$$c = \frac{3}{5} \langle \frac{3+3}{5} \rangle$$

$$\frac{3*4}{5} \rangle$$

$$\left\langle \frac{21}{5}, \frac{28}{5} \right\rangle$$

46) A Baseball player throws a baceball at an angle UR 30° with the norizontal. If the initial Speed OF the Ball is 100 mph find the horizontal and vertical components of the initial velocity vector of the ball. (Round two decimal places) 30.60.900



<86.6,50>

$$\cos 30 = \frac{\alpha}{100} = 86.6$$

 $\sin 30 = \frac{\alpha}{100} = 50$

