If $\mathbf{a} = \langle 6, 0, -2 \rangle$, find a vector **b** such that $\operatorname{comp}_{\mathbf{a}} \mathbf{b} = 3$

Let b= < x, y, 27 $Conp_{a}b = \frac{c.5}{|a|} = \frac{6x - 22}{126 + 0 + 4} = \frac{6x - 22}{540} = 3$ 50 6x - 27 = 3 J40 now pick at for t let Z= 0 Then $X = \frac{3\sqrt{40}}{6} = \frac{\sqrt{40}}{2} = \frac{2\sqrt{10}}{2} = \frac{\sqrt{10}}{2}$ Since y is not pirt of this equation then ue can let y be my # so let y= 5 Thus 5- < 110, 5,0>

Problem 2

Find a vector of length 5 that has the following directional angles: $\alpha = \frac{\pi}{3}, \beta = \frac{\pi}{6}$, and $\gamma = \frac{\pi}{2}$,