Cafourek

1) \*\* 
$$\lambda - \beta + \gamma = 0$$

$$\alpha = 0 \qquad \alpha = \beta = \gamma = 0$$

$$\alpha = 0 \qquad B_{3} \quad \lim_{n \to \infty} nes.$$

$$2 + \gamma = 0$$

3) 
$$5x + \beta * -2\gamma = 0$$
 $\beta + 2\gamma = 0$ 
 $2x + \beta + \gamma = 0$ 
 $3x + \beta + \gamma = 0$ 
 $3x + \beta + \gamma = 0$ 

$$5\alpha + 2\beta = 0$$

$$5\alpha + 4\beta = 0$$

$$3\theta$$

$$\beta = 0 \longrightarrow X = 0 \longrightarrow f = 0$$
 By lin. 202.

(4) 
$$\vec{w}_1 = \operatorname{coord}_{B_1} \begin{pmatrix} 5 \\ 2 \\ 2 \end{pmatrix} = \begin{pmatrix} 2 \\ 0 \\ 3 \end{pmatrix}, \vec{w}_2 = \operatorname{coord}_{B_1} \begin{pmatrix} 1 \\ 1 \\ 1 \\ 3 \end{pmatrix} = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}, \vec{w}_3 = \operatorname{coord}_{B_1} \begin{pmatrix} 2 \\ 2 \\ 1 \end{pmatrix} = \begin{pmatrix} 1 \\ 2 \\ 1 \end{pmatrix}$$

$$\begin{array}{c}
5) \quad 2\alpha + \beta + y = 0 \\
\beta + 2y = 0 \Rightarrow \beta = -2y \\
\hline
3\alpha + \beta + y = 0
\end{array}$$

$$\begin{array}{c}
5 \\
\hline
4 \\
\hline
6 \\
\hline
6 \\
\hline
6 \\
\hline
7 \\
6 \\
\hline
6
\end{array}$$

$$\frac{3x + \beta + \gamma = 0}{2x - \gamma = 0} = 0$$

$$\frac{3x - 3y = 0}{3x - 3y = 0}$$

$$\frac{3x - 3y = 0}{3x - 3y = 0}$$

$$\frac{4y}{5} = \frac{4y}{5} = \frac$$

$$\frac{7}{4}$$

$$\frac{7}$$

Cofourel

8) coord 
$$n_3(\vec{p}) = \begin{pmatrix} 1\\3\\2 \end{pmatrix}$$

9) a) 
$$18$$
  
b) 4  
c)  $A \times B = \begin{pmatrix} 1 & 4 & 10 \\ 3 & 8 & 24 \end{pmatrix}$ 

$$\beta \times C = \begin{pmatrix} 90.18 \\ 8.78 \end{pmatrix}$$

$$C \times B = \begin{pmatrix} 2414 \\ 1673 \\ 2820 \end{pmatrix}$$

$$C \times A = \begin{pmatrix} 8 & 12 \\ 10 & 14 \\ 74 & 20 \end{pmatrix}$$