

$$4 - 0 - 5$$

$$0 - 5 - 1$$

$$5 - 1 - 6$$

$$1 - 6 - 2$$

34bm

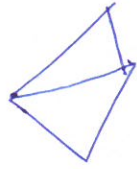
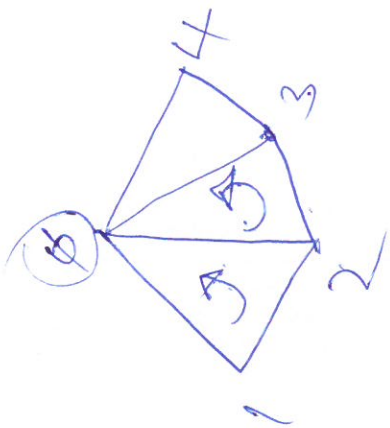
$$\text{bm} \quad \text{index} = 2$$

$$\text{Vertex} = 32$$

$$34$$

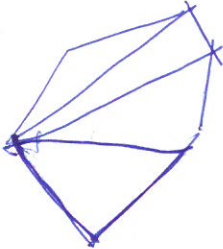
34 bytes / Δle

34bm



$$6 - 2 - 7$$

$$2 - 7 - 3$$



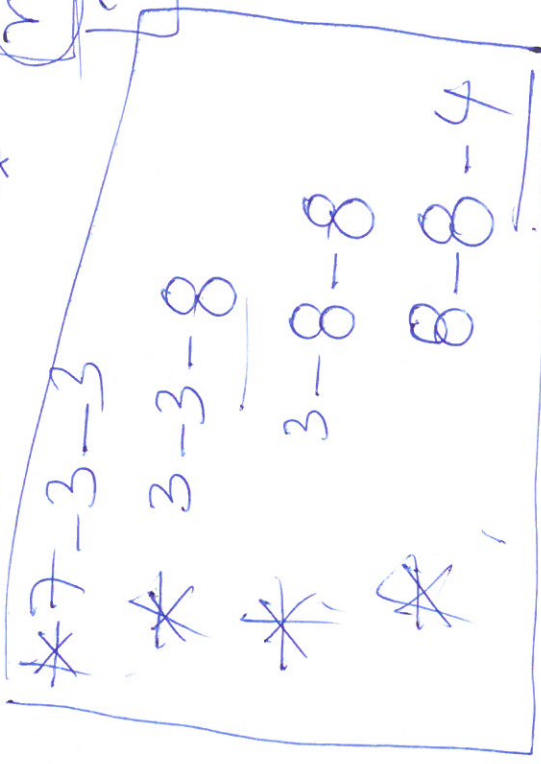
$$n - 2$$

$$4$$

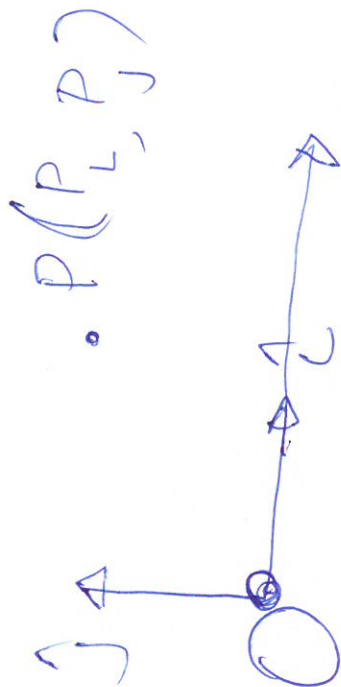
$$3$$

$$2$$

$$1$$

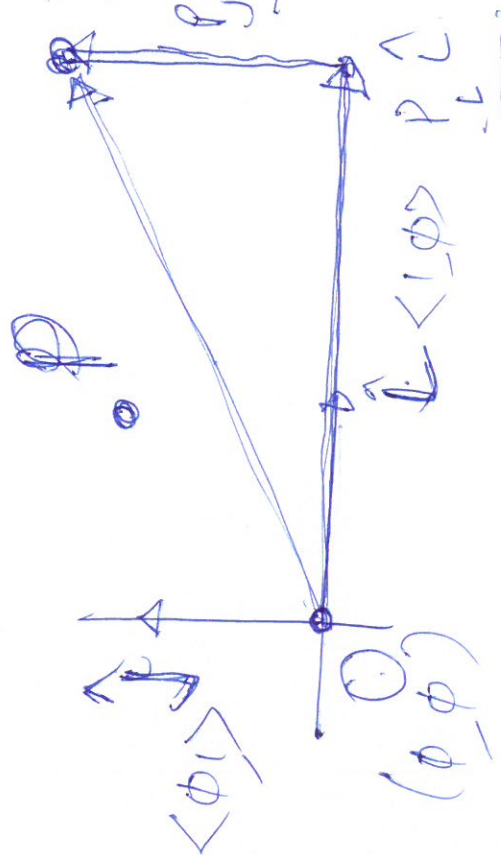


$$8 - 4 - 9$$



$$\begin{bmatrix} (1) & P \\ (0) & P \end{bmatrix} \equiv \begin{bmatrix} P & 1 \\ P & 0 \end{bmatrix}$$

$$P(P_L, P_J)$$

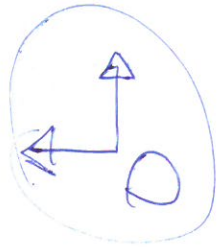


$$P = P_L \hat{L} + P_J \hat{J} + 0$$

$$= \underline{P_L \hat{L} + P_J \hat{J} + (1) 0}$$

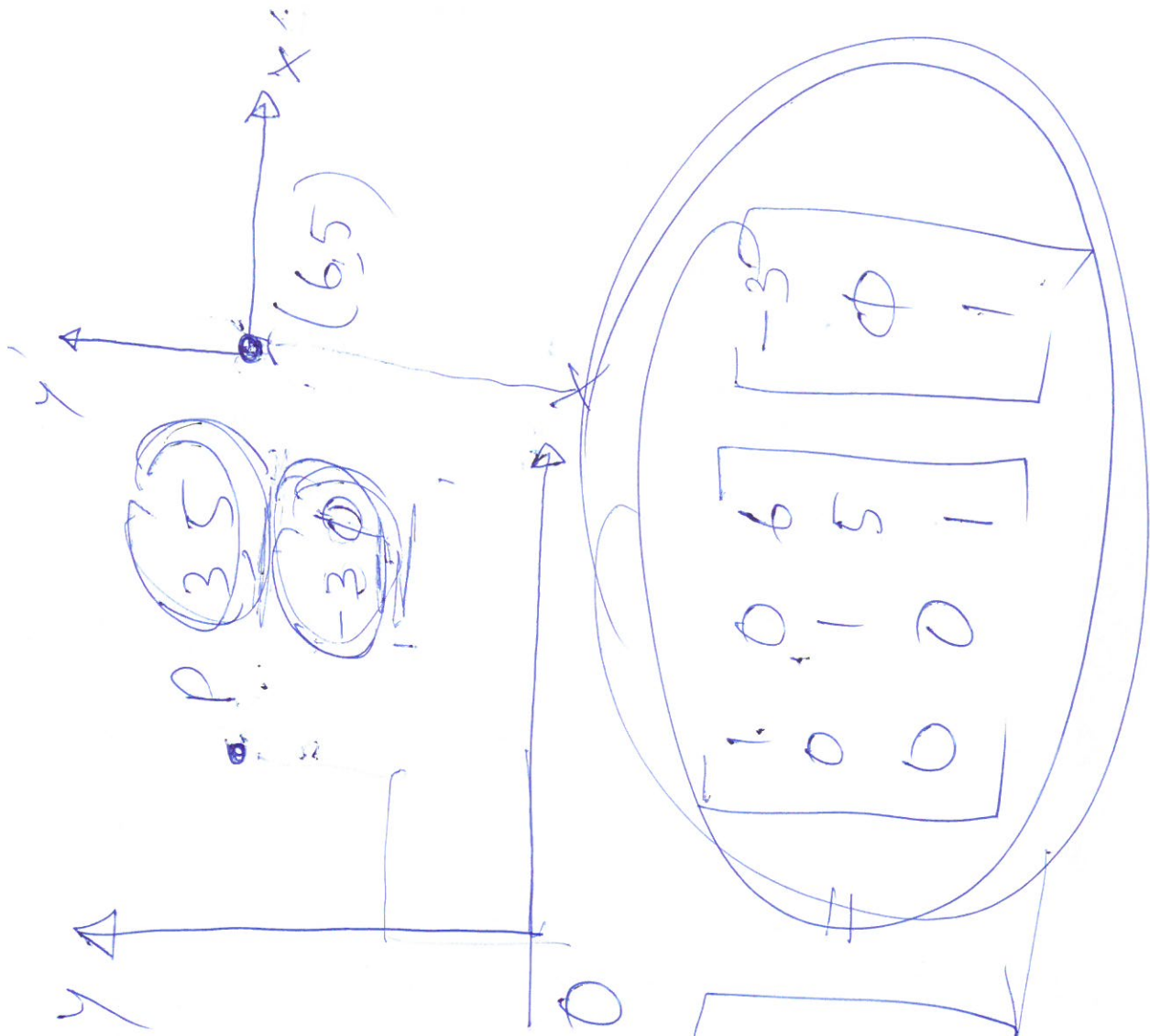
$$= \begin{bmatrix} \hat{L} & \hat{J} & 0 \end{bmatrix} \cdot \begin{bmatrix} P_L \\ P_J \\ 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} P_L \\ P_J \\ 1 \end{bmatrix} = \begin{bmatrix} \hat{L} & \hat{J} & 0 \end{bmatrix} \cdot \begin{bmatrix} P_L \\ P_J \\ 1 \end{bmatrix}$$



$$P = (3, 5)$$

3



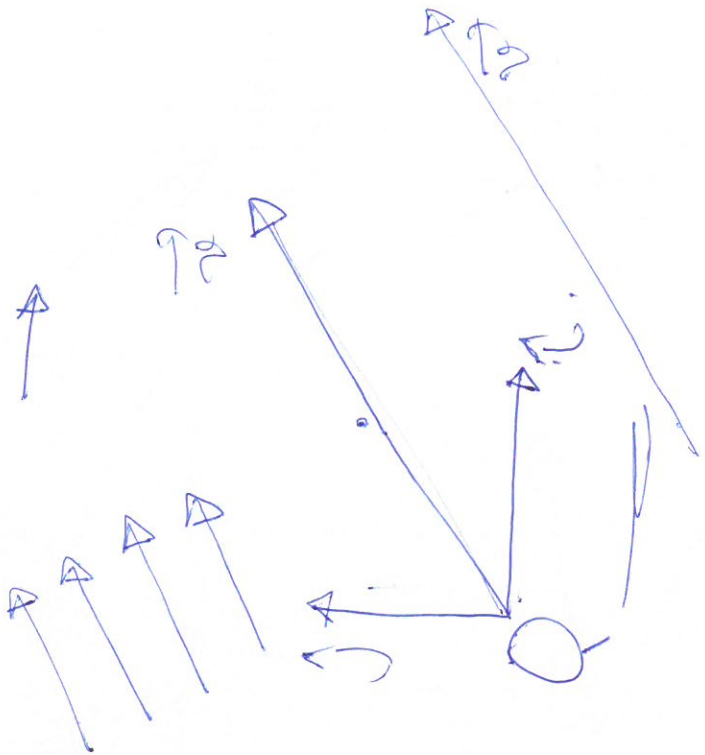
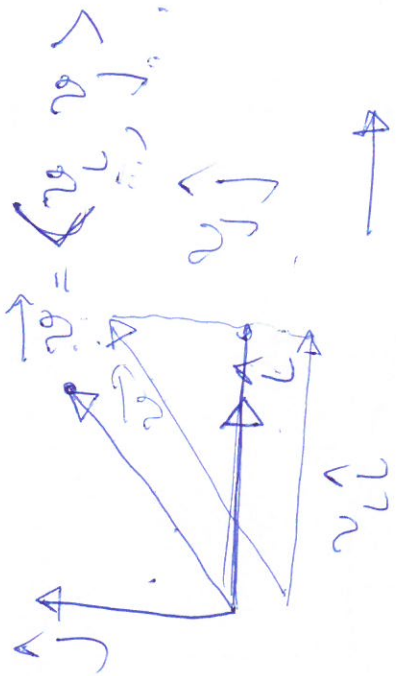
$$\begin{matrix} x \rightarrow & \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \\ y \rightarrow & \begin{bmatrix} 0 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \\ & \begin{bmatrix} 3 & 5 & 1 \end{bmatrix} \end{matrix}$$

$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ -3 & -5 & 1 \end{bmatrix}$$



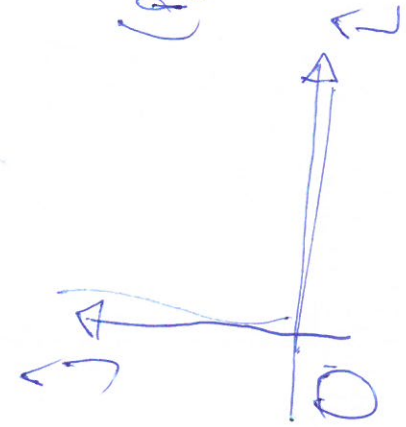
2

$$\begin{aligned}
 S &= \textcircled{5} + \phi \\
 \vec{p} &= v_L \hat{L} + v_T \hat{T} + \phi \\
 &= v_L \hat{L} + v_T \hat{T} + (\phi) \textcircled{0} \\
 &= \begin{bmatrix} \hat{L} \rightarrow 0 \\ \hat{T} \rightarrow 0 \end{bmatrix} \cdot \begin{bmatrix} \hat{L} \rightarrow \phi \\ \hat{T} \rightarrow \phi \end{bmatrix} \\
 &= \begin{bmatrix} \hat{L} \rightarrow 0 \\ \hat{T} \rightarrow 0 \end{bmatrix} \cdot \begin{bmatrix} \hat{L} \rightarrow \phi \\ \hat{T} \rightarrow \phi \end{bmatrix}
 \end{aligned}$$





5



$$\underline{A(P)}$$

$$P = p_L \hat{i} + p_J \hat{j} + 0$$

$$A(P) = A(p_L \hat{i} + p_J \hat{j} + 0)$$

$$= A(p_L \hat{i}) + A(p_J \hat{j}) + A(0)$$

$$= p_L A(\hat{i}) + p_J A(\hat{j}) + (1) A(0)$$

$$= \begin{bmatrix} A(\hat{i}) \\ A(\hat{j}) \\ A(0) \end{bmatrix} \cdot \begin{bmatrix} p_L \\ p_J \\ 1 \end{bmatrix}$$



$$\begin{array}{ccccc} \uparrow 3 & & \uparrow 2 & & \uparrow 2 \\ \downarrow 2 & & \downarrow 2 & & \downarrow 2 \\ \uparrow 2 & & \uparrow 2 & & \uparrow 2 \\ \downarrow 2 & & \downarrow 2 & & \downarrow 2 \\ \uparrow 2 & & \uparrow 2 & & \uparrow 2 \\ \downarrow 2 & & \downarrow 2 & & \downarrow 2 \\ \uparrow 2 & & \uparrow 2 & & \uparrow 2 \\ \downarrow 2 & & \downarrow 2 & & \downarrow 2 \\ \uparrow 2 & & \uparrow 2 & & \uparrow 2 \\ \downarrow 2 & & \downarrow 2 & & \downarrow 2 \end{array}$$

$$= \frac{r_{xy} \cdot r_{yz}}{r_{xz}}$$

$$= 9 + 1$$

$$\begin{bmatrix} p_n \\ p_n + x_n \end{bmatrix}$$

$$\sqrt{3} \cdot 2 = 2.1$$