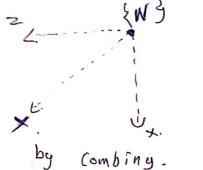
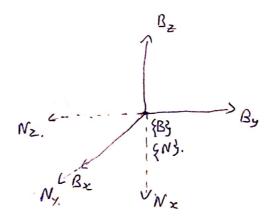
$$B_{RN} = \begin{bmatrix} 0 & 1 & 0 \\ -1 & 0 & 0 \end{bmatrix}$$





As all above equations are satisfied

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Hes, R describes a Right-handled co-exclinate frame.

Given,

WTNI, N2TW, N2TW, W2TN3 are known

transportations.

No find NiTN2)

From combining.
$$\{N_2\}$$
, $\{w\}$, $\{N_1\}$.

No $\{N_1, N_2\}$ in $\{N_2\}$, $\{w\}$, $\{N_1\}$.

No $\{N_1, N_2\}$ in $\{N_2\}$, $\{N_3\}$, $\{N_4\}$.

No $\{N_1, N_2\}$ in $\{N_2\}$, $\{N_3\}$, $\{N_4\}$.

From combining $\{N_2\}$, $\{N_3\}$, $\{N_4\}$.

No $\{N_1, N_2\}$ in $\{N_2\}$, $\{N_3\}$, $\{N_4\}$.

No $\{N_1, N_2\}$ in $\{N_2\}$, $\{N_3\}$, $\{N_4\}$.

No $\{N_2\}$, $\{N_3\}$, $\{N_4\}$, $\{N_4\}$.

No $\{N_4\}$, $\{N_4\}$,

& AZ& SB}, are co-incident from.

Translational for solution along z-axis for zodegless:

$$AT_{B} = \text{Throughoun } A \text{ (7) transfound (7) transform (}$$

$$= \begin{bmatrix} 0.866 & -0.5 & 0 & 0 \\ 0.5 & 0.866 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0.5 & -0.866 & 0 \\ 0 & 0.5 & 0.866 & 0.5 & 0 \\ 0 & 0.866 & 0.5 & 0 \\ 0 & 0.866 & 0.5 & 5 \\ 0 & 0$$

$$B_{P} = BTA . AP,$$

$$= \begin{bmatrix} 0.866 & 0.5 & 0 & 0 \\ -0.25 & 0.433 & 0.866 & -4.33 \\ 0.43) & -0.7499 & 0.5 & -25 \end{bmatrix} \begin{bmatrix} 0 \\ 6 \\ 1 \end{bmatrix}$$

$$= \begin{bmatrix} 0.866 \\ 0.5 \end{bmatrix}$$

$$B_{P} = \begin{bmatrix} 0.0266, 0.5 \end{bmatrix} \text{ i.e. } \begin{bmatrix} \times = 0, & y = 0.866, & = 0.5 \end{bmatrix}$$

Given,

$$BP_{z} = [0 \ 0 \ b].$$
 $AP_{z} = AT_{B}.BP_{z}$
 $= \begin{bmatrix} 0.866 & -0.25 & 0.433 & 0 \\ 0.5 & 0.433 & -0.7499 & 0 \\ 0 & 0.866 & 0.5 \end{bmatrix}$
 $= \begin{bmatrix} 0.866 & 0.5 & 5 \\ 0 & 0.866 & 0.5 \end{bmatrix}$

$$R_{2} = \begin{bmatrix} -2.598 \\ -4.4994 \\ 8 \end{bmatrix} = \begin{bmatrix} x = 2.598, y = -4.4994 \\ 8 \end{bmatrix}$$

$$AP_{2} = \begin{bmatrix} 2.598 - 4.4994 \\ 8 \end{bmatrix}$$

$$AP_{3} = \begin{bmatrix} 2.598 - 4.4994 \\ 8 \end{bmatrix}$$

$$AP_{4} = \begin{bmatrix} 2.598 - 4.4994 \\ 8 \end{bmatrix}$$

$$AP_{5} = \begin{bmatrix} 2.598 - 4.4994 \\ 9 \end{bmatrix}$$

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$$AP_{$$

4,)

Given

30 around
$$z$$
 - oris.

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$$\frac{S.b}{9} = \begin{pmatrix} S - v_1 - V_2 - V_3 \\ v_1 & S - V_3 & V_2 \\ V_2 & V_3 & S - V_1 \\ V_3 & - V_2 & V_1 & S \end{pmatrix} \begin{pmatrix} S \\ v_1 \\ V_2 \\ V_3 & S \end{pmatrix} = \begin{pmatrix} 0.9659 \\ 0.01589 & 0.9659 \\ 0.2588 & 0 & 0.9659 \end{pmatrix} \begin{pmatrix} 0.9659 \\ 0 \\ 0.2588 & 0 & 0.9659 \end{pmatrix} \begin{pmatrix} 0.9659 \\ 0 \\ 0.2588 & 0 & 0.9659 \end{pmatrix} = \begin{pmatrix} 0.86660 \\ 0 \\ 0.01999 \end{pmatrix}$$

Motlab Screenshots are attached.

