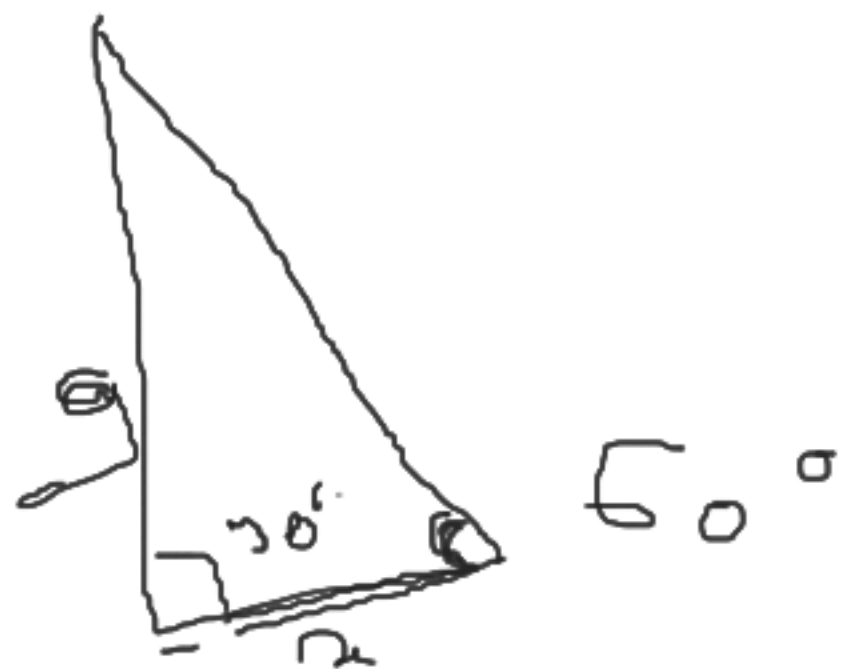$$A = \begin{bmatrix} 3 & 4 \\ 5 & 6 \end{bmatrix}$$

$$A^{-1} = \frac{1}{ad - bc} \begin{bmatrix} d & -b \\ -c & a \end{bmatrix}$$

$$= \frac{1}{3 \times 6 - 4 \times 5} \begin{bmatrix} 6 & -4 \\ -5 & 3 \end{bmatrix}$$

$$= \frac{1}{-2} \begin{bmatrix} 6 & -4 \\ -5 & 3 \end{bmatrix}$$

$$= \begin{bmatrix} 6/-2 & -4/-2 \\ -5/-2 & 3/-2 \end{bmatrix} = \begin{bmatrix} -3 & 2 \\ 2.5 & -1.5 \end{bmatrix}$$

$$60^\circ$$

$$\tan = \frac{O}{A} = \tan 60 = \frac{9}{x}$$

$$x =$$

div/u	$\frac{0}{4}$	$\frac{1}{4}$	$\frac{2}{4}$	$\frac{3}{4}$	$\frac{4}{4}$
sqrt	$\sqrt{0}$	$\sqrt{\frac{1}{4}}$	$\sqrt{\frac{1}{2}}$	$\sqrt{\frac{3}{4}}$	$\sqrt{1}$
Sin	0	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\sqrt{3}/2$	1
cos	1	$\sqrt{3}/2$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0
tan	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	∞
cot	∞	$\sqrt{3}$	1	$\frac{1}{\sqrt{3}}$	0
sec	1	$\frac{2}{\sqrt{3}}$	$\sqrt{2}$	2	∞
cosec	∞	2	$\sqrt{2}$	$\frac{2}{\sqrt{3}}$	1

$$A = \begin{matrix} 3 & 2 \\ 4 & 5 \end{matrix}$$

$$A^- = \begin{matrix} -3 & 1 \\ 2 & -2 \ 5 \end{matrix}$$

$$A \cdot A^{-1} = 1 \qquad \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

$$A = \begin{matrix} 3 & 4 \\ 5 & 6 \end{matrix}$$

$$A^{-1} = \begin{matrix} -3 & 2 \\ 2.5 & -1.5 \end{matrix}$$

$$A \cdot A^{-1} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 3 & 4 \\ 5 & 6 \end{bmatrix} \begin{bmatrix} -3 & 2 \\ 2.5 & -1.5 \end{bmatrix} = \begin{bmatrix} 3 \times -3 + 4\sqrt{2}5 & 3 \times 2 + 4 \times -1.5 \\ 5 \times -3 + 6 \times 2.5 & 5 \times 2 + 6 \times -1.5 \end{bmatrix}$$

$$= \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$