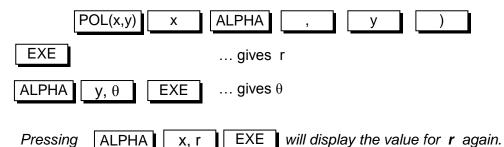
COMPLEX NUMBERS

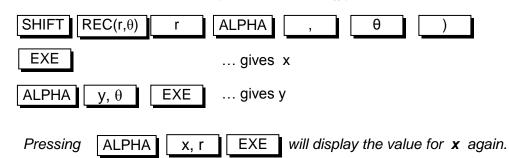
(Conversions using Casio Dot Matrix Calculator)

Always put calculator into the required mode first: DEG or RAD.

• RECTANGULAR TO POLAR ($z = x+jy \rightarrow z = r\angle\theta$)



• POLAR TO RECTANGULAR ($z = r \angle \theta \rightarrow z = x + jy$)

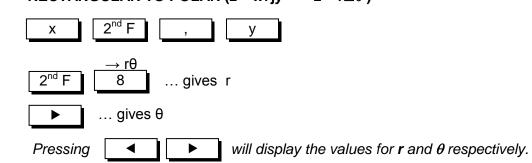


COMPLEX NUMBERS

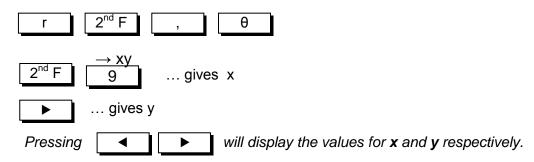
(Conversions using Sharp Calculators E509L, E546L, 520L)

Always put calculator into the required mode first: DEG or RAD.

• RECTANGULAR TO POLAR ($z = x+jy \rightarrow z = r\angle\theta$)



• POLAR TO RECTANGULAR ($z = r \angle \theta \rightarrow z = x+jy$)



COMPLEX NUMBERS (Conversions using Sharp Calculator E531GH, 590G)

Always put calculator into the required mode first ς DEG or RAD.

• RECTANGULAR TO POLAR ($z = x+jy \rightarrow z = r\angle\theta$)



$$\rightarrow$$
 r θ ... gives r

$$CA$$
 ... gives θ

Pressing
$$\xrightarrow{CA}$$
 continuously will display the values for \mathbf{r} and $\mathbf{\theta}$ respectively.

• POLAR TO RECTANGULAR ($z = r\angle\theta \rightarrow z = x+jy$)



$$2^{nd} F \longrightarrow xy \qquad \dots \text{ gives } x$$

Pressing \longrightarrow continuously will display the values for **x** and **y** respectively.

COMPLEX NUMBERS (Conversions using Sharp Calculators E531RH)

Always put calculator into the required mode first: DEG or RAD.

• RECTANGULAR TO POLAR ($z = x+jy \rightarrow z = r\angle\theta$)



$$\begin{array}{c|c}
 & \rightarrow r\theta \\
\hline
2^{nd} F & 8 & \dots \text{ gives } r
\end{array}$$

$$2^{nd}$$
 F Exp ... gives θ

Pressing
$$2^{nd}$$
 F will display the values for \mathbf{r} and $\mathbf{\theta}$ respectively.

• POLAR TO RECTANGULAR ($z = r \angle \theta \rightarrow z = x+jy$)



$$2^{\text{nd}} \text{ F}$$
 9 ... gives x

Pressing 2^{nd} F Exp will display the values for **x** and **y** respectively.

OMPLEX NUMBERS (Conversions using Casio S.V.P.A.M. Calculator)
lways put calculator into the required mode first ς DEG or RAD.
RECTANGULAR TO POLAR ($z = x+jy \ \varsigma \ z = r \ \theta$)
SHIFT POL (x , y)
= gives r (which is stored in memory cell 'E')
RCL F gives θ (which is stored in memory cell 'F')
Pressing $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
POLAR TO RECTANGULAR ($z = r \theta \varsigma z = x+jy$)
SHIFT REC(r , θ)
= gives x (which is stored in memory cell 'E')
RCL F gives y (which is stored in memory cell 'F')
Pressing RCL E or RCL F will display the values for x and y
respectively.
OMPLEX NUMBERS (Conversions using Casio Super-fx or V.P.A.M. Calculator)
OMPLEX NUMBERS (Conversions using Casio Super-fx or V.P.A.M. Calculator) lways put calculator into the required mode first : DEG or RAD.
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lways put calculator into the required mode first : DEG or RAD.
Iways put calculator into the required mode first : DEG or RAD. RECTANGULAR TO POLAR ($z = x+jy$ to $z = r \angle \theta$) $R \rightarrow P$
Iways put calculator into the required mode first : DEG or RAD. RECTANGULAR TO POLAR ($z = x+jy$ to $z = r \angle \theta$) X SHIFT Y
Iways put calculator into the required mode first : DEG or RAD. RECTANGULAR TO POLAR ($z = x+jy$ to $z = r \angle \theta$) $x = x+jy = $
Iways put calculator into the required mode first : DEG or RAD. RECTANGULAR TO POLAR ($z = x+jy$ to $z = r \angle \theta$) $x = x+jy$ to $z = r \angle \theta$) $x = x+jy$ to $z = r \angle \theta$ $x = x+jy$ to $z = r \angle \theta$ $x = x+jy$ to $z = x+jy$ $x = x+jy$ $x = x+jy$ $x = x+jy$ Pressing $x = x+jy$ $x = x+jy$ Polar to rectangular ($z = x+jy$)
Ilways put calculator into the required mode first : DEG or RAD. RECTANGULAR TO POLAR ($z = x + jy$ to $z = r \angle \theta$) $ \begin{array}{cccccccccccccccccccccccccccccccccc$
Iways put calculator into the required mode first : DEG or RAD. RECTANGULAR TO POLAR ($z = x+jy$ to $z = r \angle \theta$) $x = R \rightarrow P$
Iways put calculator into the required mode first : DEG or RAD. RECTANGULAR TO POLAR ($z = x+jy$ to $z = r \angle \theta$) $x = x+jy$ to $z = r \angle \theta$) $x = x+jy$ to $z = r \angle \theta$ $x = x+jy$ Polar to rectangular ($z = x+jy$) $x = x+jy$ $x = x+jy$ $x = x+jy$ $x = x+jy$

* If $X \leftrightarrow Y$ is coloured brown/orange/red, you'll have to press $\begin{tabular}{|c|c|c|c|c|}\hline SHIFT \\\hline \end{tabular}$

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