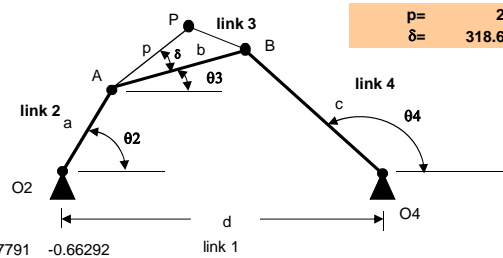


#### 4-Bar Linkage

a=	1	Link 2
b=	3	Link 3
c=	1.5	Link 4
d=	3	Link 1
$\theta_2 =$	120	2.094395102
$\dot{\theta}_2 =$	5	$\frac{1}{s}$
$\ddot{\theta}_2 =$	10	$\frac{1}{s^2}$
By=	1.40	-0.98
Bx=	2.45	1.86
$\theta_3 =$	10.2	-38.0
$\theta_4 =$	111.4	-139.2
$\dot{\theta}_3 =$	2.5411E-01	1.6690E+00
$\dot{\theta}_4 =$	3.1970E+00	-1.2739E+00
$\ddot{\theta}_3 =$	3.6854E+00	6.3100E+00
$\ddot{\theta}_4 =$	2.7926E+00	7.2029E+00

K1= 2.1071E+00  
 K2= 2.4744E-01  
 K3= 4.1636E-01  
 K4= -1.3690E+00



	x comp	y comp	mag	angle	e <sub>r</sub>		e <sub>θ</sub>	
					i	j	i	j
rO4=	3.00	0.00	3.000	0.0	1.000	0.000	0.000	1.000
rA=	-0.50	0.87	1.000	120.0	-0.500	0.866	-0.866	-0.500
rBA=	2.95	0.53	3.000	10.2	0.984	0.177	-0.177	0.984
rBO4=	-0.55	1.40	1.500	111.4	-0.365	0.931	-0.931	-0.365
rB=	2.45	1.40	2.822	29.7	0.869	0.495	-0.495	0.869
rPA=	1.71	-1.04	2.000	-31.2	0.855	-0.518	0.518	0.855
rP=	1.21	-0.17	1.222	-8.0	0.990	-0.139	0.139	0.990
vA=	-4.33	-2.50	5.000	-150.0	-0.866	-0.500	0.500	-0.866
vBA=	-0.13	0.75	0.762	100.2	-0.177	0.984	-0.984	-0.177
vB=	-4.46	-1.75	4.796	-158.6	-0.931	-0.365	0.365	-0.931
vPA=	0.26	0.43	0.508	58.8	0.518	0.855	-0.855	0.518
vP=	-4.07	-2.07	4.561	-153.1	-0.892	-0.453	0.453	-0.892
aA=	3.84	-26.65	26.926	-81.8	0.143	-0.990	0.990	0.143
aBA=	-2.15	10.85	11.058	101.2	-0.194	0.981	-0.981	-0.194
aB=	1.69	-15.80	15.893	-83.9	0.107	-0.994	0.994	0.107
aPA=	3.71	6.37	7.372	59.8	0.503	0.864	-0.864	0.503
aP=	7.55	-20.28	21.639	-69.6	0.349	-0.937	0.937	0.349
ALT	x comp	y comp	mag	angle	i	j	i	j
rO4=	3.00	0.00	3.000	0.0	1.000	0.000	0.000	1.000
rA=	-0.50	0.87	1.000	120.0	-0.500	0.866	-0.866	-0.500
rBA=	2.36	-1.85	3.000	-38.0	0.788	-0.615	0.615	0.788
rBO4=	-1.14	-0.98	1.500	-139.2	-0.757	-0.653	0.653	-0.757
rB=	1.86	-0.98	2.107	-27.7	0.885	-0.465	0.465	0.885
rPA=	0.37	-1.97	2.000	-79.4	0.184	-0.983	0.983	0.184
rP=	-0.13	-1.10	1.108	-96.8	-0.119	-0.993	0.993	-0.119
vA=	-4.33	-2.50	5.000	-150.0	-0.866	-0.500	0.500	-0.866
vBA=	3.08	3.95	5.007	52.0	0.615	0.788	-0.788	0.615
vB=	-1.25	1.45	1.911	130.8	-0.653	0.757	-0.757	-0.653
vPA=	3.28	0.62	3.338	10.6	0.983	0.184	-0.184	0.983
vP=	-1.05	-1.88	2.157	-119.1	-0.486	-0.874	0.874	-0.486
aA=	3.84	-26.65	26.926	-81.8	0.143	-0.990	0.990	0.143
aBA=	5.06	20.06	20.692	75.8	0.245	0.970	-0.970	0.245
aB=	8.90	-6.59	11.075	-36.5	0.804	-0.595	0.595	0.804
aPA=	11.38	7.80	13.795	34.4	0.825	0.565	-0.565	0.825
aP=	15.22	-18.85	24.226	-51.1	0.628	-0.778	0.778	0.628