syms L1 L2 L3 L4 theta1 theta2 theta3 theta_dot_1 theta_dot_2 theta_dot_3 real  [T10,R10]=DH(0,0,theta1,L1+L2)	
T10 = $ \begin{pmatrix} \cos(\theta_1) & -\sin(\theta_1) & 0 & 0 \\ \sin(\theta_1) & \cos(\theta_1) & 0 & 0 \end{pmatrix} $	
$ \begin{pmatrix} 0 & 0 & 1 & L_1 + L_2 \\ 0 & 0 & 0 & 1 \end{pmatrix} $ R10 = $ \begin{pmatrix} \cos(\theta_1) & -\sin(\theta_1) & 0 \end{pmatrix} $	
$\begin{pmatrix} \sin(\theta_1) & \cos(\theta_1) & 0 \\ 0 & 0 & 1 \end{pmatrix}$	
[T21,R21]=DH(90,0,theta2,0)  T21 = $ \begin{cases} \cos(\theta_2) & -\sin(\theta_2) & 0 & 0 \end{cases} $	
$\begin{pmatrix} 0 & 0 & -1 & 0 \\ \sin(\theta_2) & \cos(\theta_2) & 0 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix}$ R21 =	
$ \begin{pmatrix} \cos(\theta_2) & -\sin(\theta_2) & 0 \\ 0 & 0 & -1 \\ \sin(\theta_2) & \cos(\theta_2) & 0 \end{pmatrix} $	
[T32,R32]=DH(0,L3,theta3,0) T32 =	
$ \begin{pmatrix} \cos(\theta_3) & -\sin(\theta_3) & 0 & L_3 \\ \sin(\theta_3) & \cos(\theta_3) & 0 & 0 \\ 0 & 0 & 1 & 0 \end{pmatrix} $	
$ \begin{pmatrix} 0 & 0 & 0 & 1 \end{pmatrix} $ R32 = $ \begin{pmatrix} \cos(\theta_3) & -\sin(\theta_3) & 0 \end{pmatrix} $	
$ \begin{pmatrix} \sin(\theta_3) & \cos(\theta_3) & 0 \\ 0 & 0 & 1 \end{pmatrix} $ [T43, R43]=DH(0, L4, 0, 0)	
$ \begin{array}{rcl} T43 &= \\ \begin{pmatrix} 1 & 0 & 0 & L_4 \end{pmatrix} \end{array} $	
$ \begin{pmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix} $ R43 =	
$\begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$	
w00=[0;0;0]; %intializing w and v , w=0 and v=0 because they are the fixed frame $v00=[0;0;0];$	
% wab means omeaga of frame 'a' written in frame of 'b' % vab means velocity of frame 'a' written in frame of 'b' [w11,v11] = omega_and_vel_next(R10',w00,[0;0;theta_dot_1],v00,[0;0;L1+L2]);	
<pre>[w22, v22] = omega_and_vel_next(R21',w11,[0;0;theta_dot_2],v11,[0;0;0]); [w33, v33] = omega_and_vel_next(R32',w22,[0;0;theta_dot_3],v22,[L3;0;0]); [w44, v44] = omega_and_vel_next(R43',w33,[0;0;0],v33,[L4;0;0]);</pre>	
<pre>w11=simplify(w11); v11=simplify(v11); w22=simplify(w22); w22=simplify(w22);</pre>	
v22=simplify(v22); w33=simplify(w33); v33=simplify(v33); w44=simplify(w44) % w44 means omeaga of frame '4' written in frame of '4'	
$w44 = \begin{pmatrix} \dot{\theta}_1 \sin(\theta_2 + \theta_3) \\ \dot{\theta}_2 & (\theta_1 + \theta_2) \end{pmatrix}$	
$ \begin{vmatrix} \dot{\theta}_1 \cos(\theta_2 + \theta_3) \\ \dot{\theta}_2 + \dot{\theta}_3 \end{vmatrix} $ v44=simplify(v44) % v44 means velocity of frame '4' written in frame of '4'	
$ \begin{pmatrix} L_3 \dot{\theta}_2 \sin(\theta_3) \\ \vdots \\ \vdots \end{pmatrix} $	
$\begin{pmatrix} L_3 \dot{\theta}_2 \sin(\theta_3) \\ L_4 \left( \dot{\theta}_2 + \dot{\theta}_3 \right) + L_3 \dot{\theta}_2 \cos(\theta_3) \\ -L_4 \dot{\theta}_1 \cos(\theta_2 + \theta_3) - L_3 \dot{\theta}_1 \cos(\theta_2) \end{pmatrix}$	
v40=simplify(R10*R21*R32*R43*v44) % v40 means velocity of frame '4' written in frame of '0'	
$ \begin{vmatrix} \dot{\theta}_{1}\cos(\theta_{1})  \sigma_{1} - \sin(\theta_{2} + \theta_{3}) \sin(\theta_{1})  \sigma_{2} + L_{3}  \dot{\theta}_{2} \cos(\theta_{2} + \theta_{3}) \sin(\theta_{1}) \sin(\theta_{3}) \\ L_{4}  \dot{\theta}_{2} \cos(\theta_{2} + \theta_{3}) + L_{4}  \dot{\theta}_{3} \cos(\theta_{2} + \theta_{3}) + L_{3}  \dot{\theta}_{2} \cos(\theta_{2}) \end{vmatrix} $	
where $\sigma_1 = L_4 \cos(\theta_2 + \theta_3) + L_3 \cos(\theta_2)$	
$\sigma_2 = L_4 \dot{\theta}_2 + L_4 \dot{\theta}_3 + L_3 \dot{\theta}_2 \cos(\theta_3)$	
w40=simplify(R10*R21*R32*R43*w44) % w40 means omeaga of frame '4' written in frame of '0' w40 = $ \left( \sin(\theta_1) \left( \dot{\theta}_2 + \dot{\theta}_3 \right) \right) $	
$\begin{pmatrix} \sin(\theta_1) & (\dot{\theta}_2 + \dot{\theta}_3) \\ -\cos(\theta_1) & (\dot{\theta}_2 + \dot{\theta}_3) \\ \dot{\theta}_1 \end{pmatrix}$	
<pre>J1=subs(v40, [theta_dot_1 ,theta_dot_2 ,theta_dot_3], [1,0,0]); J2=subs(v40, [theta_dot_1 ,theta_dot_2 ,theta_dot_3], [0,1,0]); J3=subs(v40, [theta_dot_1 ,theta_dot_2 ,theta_dot_3], [0,0,1]);</pre>	
<pre>Jv0=[J1,J2,J3]; Jv0=simplify(Jv0) % linear velocity Jacobian written in frame of 0</pre> Jv0 =	
$\begin{pmatrix} -\sin(\theta_1)  \sigma_1 & -\cos(\theta_1)  \sigma_2 & -L_4 \sin(\theta_2 + \theta_3) \cos(\theta_1) \\ \cos(\theta_1)  \sigma_1 & -\sin(\theta_1)  \sigma_2 & -L_4 \sin(\theta_2 + \theta_3) \sin(\theta_1) \\ 0 & \sigma_1 & L_4 \cos(\theta_2 + \theta_3) \end{pmatrix}$	
where	
$\sigma_1 = L_4 \cos(\theta_2 + \theta_3) + L_3 \cos(\theta_2)$ $\sigma_2 = L_4 \sin(\theta_2 + \theta_3) + L_3 \sin(\theta_2)$	
<pre>check = simplify(v40-Jv0*[theta_dot_1 ;theta_dot_2 ;theta_dot_3]) %verifies v=J*theta_dot check =</pre>	
$\begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$	
J4=subs(w40, [theta_dot_1 ,theta_dot_2 ,theta_dot_3], [1,0,0]); J5=subs(w40, [theta_dot_1 ,theta_dot_2 ,theta_dot_3], [0,1,0]); J6=subs(w40, [theta_dot_1 ,theta_dot_2 ,theta_dot_3], [0,0,1]); Jw0=[J4,J5,J6];	
Jw0=[J4, J5, J6]; Jw0=simplify(Jw0) % angular velocity Jacobian written in frame of 0 Jw0 = $ \begin{pmatrix} 0 & \sin(\theta_1) & \sin(\theta_1) \end{pmatrix} $	
$\begin{pmatrix} 0 & -\cos(\theta_1) & -\cos(\theta_1) \\ 1 & 0 & 0 \end{pmatrix}$	
check = simplify(w40-Jw0*[theta_dot_1 ;theta_dot_2 ;theta_dot_3]) %verifies w=J*theta_dot check = $\begin{pmatrix} 0 \end{pmatrix}$	
$\begin{pmatrix} 0 \\ 0 \end{pmatrix}$	
J0=[Jv0; Jw0] %because [v;w]=J*[theta_dot]  J0 =	
$ \begin{cases} sin(\theta_1)  \theta_1 & \cos(\theta_1)  \theta_2 & L_4 \sin(\theta_2 + \theta_3) \cos(\theta_1) \\ cos(\theta_1)  \sigma_1 & -\sin(\theta_1)  \sigma_2 & -L_4 \sin(\theta_2 + \theta_3) \sin(\theta_1) \\ 0 & \sigma_1 & L_4 \cos(\theta_2 + \theta_3) \\ 0 & \sin(\theta_1) & \sin(\theta_1) \end{cases} $	
$ \begin{pmatrix} 0 & -\cos(\theta_1) & -\cos(\theta_1) \\ 1 & 0 & 0 \end{pmatrix} $	
where $\sigma_1 = L_4 \cos(\theta_2 + \theta_3) + L_3 \cos(\theta_2)$	
$\sigma_2 = L_4 \sin(\theta_2 + \theta_3) + L_3 \sin(\theta_2)$	
J1=subs(v44, [theta_dot_1 ,theta_dot_2 ,theta_dot_3], [1,0,0]); J2=subs(v44, [theta_dot_1 ,theta_dot_2 ,theta_dot_3], [0,1,0]); J3=subs(v44, [theta_dot_1 ,theta_dot_2 ,theta_dot_3], [0,0,1]); Jv4=[J1,J2,J3];	
Jv4=simplify(Jv4) % linear velocity Jacobian written in frame of 4	
check = simplify(v44-Jv4*[theta_dot_1 ;theta_dot_2 ;theta_dot_3]) %verifies v=J*theta_dot check = $\begin{pmatrix} 0 \\ 0 \end{pmatrix}$	
<pre></pre>	
J5=subs(w44, [theta_dot_1 ,theta_dot_2 ,theta_dot_3], [0,1,0]); J6=subs(w44, [theta_dot_1 ,theta_dot_2 ,theta_dot_3], [0,0,1]); Jw4=[J4,J5,J6]; Jw4=simplify(Jw4) % angular velocity Jacobian written in frame of 4	
$ \int \sin(\theta_2 + \theta_3)  0  0 $	
$ \begin{pmatrix} \cos(\theta_2 + \theta_3) & 0 & 0 \\ 0 & 1 & 1 \end{pmatrix} $ $ \text{check = simplify(w44-Jw4*[theta_dot_1 ; theta_dot_2 ; theta_dot_3]) %verifies w=J*theta_dot} $	
$\begin{array}{c} check = \\ \begin{pmatrix} 0 \\ 0 \end{pmatrix} \end{array}$	
J4=[Jv4;Jw4] %because [v;w]=J*[theta_dot]	
$ \begin{cases} 0 & L_3 \sin(\theta_3) & 0 \\ 0 & L_4 + L_3 \cos(\theta_3) & L_4 \end{cases} $	
$-L_4\cos(\theta_2+\theta_3)-L_3\cos(\theta_2) \qquad \qquad 0$	
$ \begin{vmatrix} -L_4 \cos(\theta_2 + \theta_3) - L_3 \cos(\theta_2) & 0 & 0 \\ \sin(\theta_2 + \theta_3) & 0 & 0 \\ \cos(\theta_2 + \theta_3) & 0 & 0 \end{vmatrix} $	
$ \begin{cases} \sin(\theta_2 + \theta_3) & 0 & 0 \\ \cos(\theta_2 + \theta_3) & 0 & 0 \\ 0 & 1 & 1 \end{cases} $ Rot=sym(zeros(6,6));	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$ \begin{aligned} & \sin(\theta_2 + \theta_3) & 0 & 0 \\ & \cos(\theta_2 + \theta_3) & 0 & 0 \\ & 0 & 1 & 1 \end{aligned} $ $ \begin{aligned} & \text{Rot} = \text{sym}(\text{zeros}(6,6)); \\ & \text{Rot}(1:3,1:3) = \text{R10}^*\text{R21}^*\text{R32}^*\text{R43}; \\ & \text{Rot}(4:6,4:6) = \text{R10}^*\text{R21}^*\text{R32}^*\text{R43}; \\ & \text{Rot}(\% \text{ matrix that converts } 34 \text{ to } 36 \end{aligned} $ $ \begin{aligned} & \text{Rot} = \\ & \frac{\sigma_4}{\sigma_3} \sin(\theta_1) & 0 & 0 & 0 \\ & \frac{\sigma_2}{\sigma_1} - \cos(\theta_1) & 0 & 0 & 0 \\ & \frac{\sigma_6}{\sigma_5} & 0 & 0 & 0 & 0 \\ & 0 & 0 & \sigma_4 & \sigma_3 & \sin(\theta_1) \\ & 0 & 0 & 0 & \sigma_2 & \sigma_1 - \cos(\theta_1) \\ & 0 & 0 & 0 & \sigma_6 & \sigma_5 & 0 \end{aligned} $ $ \begin{aligned} & \text{where} \end{aligned} $ $ & \sigma_i = -\cos(\theta_2) \sin(\theta_1) \sin(\theta_3) - \cos(\theta_3) \sin(\theta_1) \sin(\theta_2) \\ & \sigma_2 = \cos(\theta_2) \cos(\theta_3) \sin(\theta_1) - \sin(\theta_1) \sin(\theta_2) \sin(\theta_3) \\ & \sigma_3 = -\cos(\theta_1) \cos(\theta_2) \sin(\theta_3) - \cos(\theta_1) \cos(\theta_3) \sin(\theta_2) \end{aligned} $	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{aligned} & \sin(\theta_2 + \theta_3) & 0 & 0 \\ & \cos(\theta_2 + \theta_3) & 0 & 0 \\ & 0 & 1 & 1 \end{aligned} \right) \\ & \text{Rot} = \text{sym}(\text{zeros}(6, 6)); \\ & \text{Rot}(4:3, 1:3) = \text{Ris}(\theta^* \text{Re2}^* \text{R32}^* \text{R43}; \\ & \text{Rot}(4:6, 4:6) = \text{Ris}(\theta^* \text{Re2}^* \text{R32}^* \text{R43}; \\ & \text{Rot}(4:6, 4:6) = \text{Ris}(\theta^* \text{Re2}^* \text{R32}^* \text{R43}; \\ & \text{Rot}(4:6, 4:6) = \text{Ris}(\theta^* \text{Re2}^* \text{R32}^* \text{R43}; \\ & \text{Rot}(3) & \text{Rot}(4:6) = \text{Ris}(\theta^* \text{R21}^* \text{R32}^* \text{R43}; \\ & \text{Rot}(3) & \text{Rot}(4:6) = \text{Ris}(\theta^* \text{R21}^* \text{R32}^* \text{R43}; \\ & \text{Rot}(3) & \text{Rot}(4:6) = \text{Ris}(\theta^* \text{R21}^* \text{R32}^* \text{R43}; \\ & \text{Rot}(3) & \text{Rot}(4:6) = \text{Ris}(\theta^* \text{R32}^* \text{R43}; \\ & \text{Rot}(4:6) = \text{Ris}(\theta^* \text{R32}^* \text{R32}^* \text{R43}; \\ & \text{Rot}(4:6) = \text{Ris}(\theta^* \text{R32}^* \text{R32}^* \text{R33}; \\ & \text{Rot}(4:6) = \text{Ris}(\theta^* \text{R32}^* \text{R32}^* \text{R33}; \\ & \text{Rot}(4:6) = \text{Ris}(\theta^* \text{R32}^* \text{R32}^* \text{R33}; \\ & \text{Rot}(4:6) = Ris$	
$ \begin{aligned} & \sin(\theta_2 + \theta_3) & 0 & 0 \\ & \cos(\theta_1 + \theta_1) & 0 & 0 \\ & 0 & 1 & 1 \\ \end{aligned} \end{aligned} $ Rot(1:3, 1:3)=M19-R21-R32-R43; ROT(1:3, 1:3)=M19-R21-R32-R43; ROT(4:6, 4:6)=M12-R32-R43; ROT(4:6, 4:6)=M12-R32-R34; ROT(4:6, 4:6)=M12-R32-R34; ROT(4:6, 4:6)=M12-R32-R34; ROT(4:6, 4:6)=M12-R32-R34; ROT(4:6, 4:6)=M12-R32-R34; ROT(4:6, 4:6)=M12-R32-R33; ROT(4:6, 4:6)=M12-R32-R33-R32-R32	
$\begin{array}{c} \sin(\theta_1+\theta_3) & 0 & 0 \\ \cos(\theta_2+\theta_3) & 0 & 0 \\ 0 & 1 & 1 \\ \end{array} \right) \\ \text{Rot} (3.5, 1:3) = 810 R 821 R 827 R 83 \\ \text{Rot} (3.5, 1:3) = 810 R 821 R 827 R 83 \\ \text{Rot} (3.6, 1:6) = 810 R 821 R 827 R 83 \\ \text{Rot} (3.6, 1:6) = 810 R 821 R 827 R 83 \\ \text{Rot} (3.6, 1:6) = 810 R 821 R 827 R 83 \\ \text{Rot} (3.6, 1:6) = 810 R 821 R 827 R 83 \\ \text{Rot} (3.6, 1:6) = 810 R 83 R 8$	
$\begin{array}{lll} \sin(\theta_{1}+\theta_{0}) & 0 & 0 \\ \cos(\theta_{2}+\theta_{0}) & 0 & 0 \\ 0 & 1 & 1 \\ \end{array} \\ & \cos(\theta_{2}+\theta_{0}) & 0 & 0 \\ 0 & 1 & 1 \\ \end{array} \\ & \cos(\theta_{2}+\theta_{0}) & 0 & 0 \\ 0 & 1 & 1 \\ \end{array} \\ & \cot(\theta_{2}+\theta_{2}) & 0 & 0 \\ 0 & 1 & 1 \\ \end{array} \\ & \cot(\theta_{2}+\theta_{2}) & \cot(\theta_{2}+\theta_{2}) & \cot(\theta_{2}+\theta_{2}) \\ & \cot(\theta_{2}+\theta$	
$ \begin{aligned} & \sin(\theta_1 + \theta_1) & 0 & 0 \\ & \cos(\theta_1 + \theta_1) & 0 & 0 \\ & 1 & 1 \end{aligned} $ Rot=pym(zeros(6,8)): $ & \sin(1.3, 1.3, 3.3) = 3 \times 1832 \times 1833; \\ & \cos(1.4, 6, 4:6) = 3 \times 1848 \times 127832 \times 1833; \\ & \cos(3, 4:6, 4:6) = 3 \times 1848 \times 127832 \times 1833; \\ & \cos(3, 4:6, 4:6) = 3 \times 1848 \times 127832 \times 1833; \\ & \cos(3, 4:6, 4:6) = 3 \times 1848 \times 1288 \times 1848 \times 18$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	
$\begin{aligned} & \sin(\theta_1 + \theta_1) & 0 & 0 \\ & \cos(\theta_1 + \theta_1) & 0 & 0 \\ & 0 & 0 & 0 \\ & \cos(\theta_1 + \theta_1) & 0 & 0 \\ & 0 & 1 & 1 \\ & 0 & 0 & 0 \\ & \cos(1(3,3,1,3),3) & \sin(\theta_1) & \cos(\theta_1) & \sin(\theta_2) \\ & \cos(1(3,6,4;s) & \sin(\theta_1) & \cos(\theta_1) & \sin(\theta_2) \\ & \cos(1(3,6,4;s) & \sin(\theta_1) & 0 & 0 \\ & \cos(1(3,6,4;s) & \cos(\theta_1) & \cos(\theta_1) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_1) & \cos(\theta_1) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_1) & \cos(\theta_1) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_1) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_1) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) & \cos(\theta_2) & \cos(\theta_2) & \cos(\theta_2) \\ & \cos(1(3,6,4;s) $	
Rot=sym(cres(s,6));   Rot(1:3,1:3)=Ris(R) RS(1:83)=Ras;   Rot(1:3)=Ras;   Rot(1:	
\text{cost} \( \frac{\text{in}}{\text{c}} \( \frac{\text{c}}{\text{c}} \) \]  **Note: **The cost **The cos	
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