	CSE 180 Home west #1
1)	Composite Rolation:
	(1) (2) (3) (5)
B	R = Pa(T43) · Ra(T42) · Pa(T/4) · Pa(T/6) · Pa(t/3)
2	Transformation Motrices!
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	Frame B: 1 0 0 = 1 0 0
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	(3) Potation $\Gamma(12)$ on $\frac{7}{2}$ $\left[\cos\left(\pi t_{12}\right)\right] - \sin\left(\pi t_{12}\right) = 0$
	$\frac{\left(\cos\left(\pi I_{2}\right)\right) - \sin\left(\pi I_{2}\right)}{\sin\left(\pi I_{2}\right)} = \frac{\left(\pi I_{2}\right)}{\cos\left(\pi I_{2}\right)} = \left(\pi I_{$
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tigation (17) of a se	$AT = \begin{bmatrix} 0 & 0 & 1 & 0 \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T & T & T \\ A & T & T$
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q = atbitej +dK 3 2(a2+b3)-1 2(b(-ad) 2(bd +ac) 2(b(+ad) 2(a2+c2)-1 2 (cd -ab) 216d-ac) 2(cd tab) 2(a2+cl2)-11" 2(a 1b3) -1 2(bc +ad) 2(bd -ac) RT = 2(b(-ad) 2(a2+c2)-1 2 (cd +ab) 2(bd+ac) 2(cd-ab) 2(a3+d3)-1 RT · R = I 45ing a2+62 tc2 td2 = 1 first Row 2(a2+b3)-1)(2a2+b2)-1)+(2(b(1ad)(2(b(tad)))+(2(bd+ac)(2(bd+ac))) (2(a2+b2)-1)(2b-ad) + (2(bc tad)(2(a2+c2)-1)+(2(bd+ac)(2(d+ab)) (2a2+b2)-1) (2(bd tac)) + (2(bc+ad)(2(cd-ab) + (2(bd+ad)(2(a2+d2)-1) Second row 2(b(-ad) 2(a2+62)-1) + (2(a2+c2)-1 (2(bc+ad)) + (2(d+ab) (2(bd-ac)) (2(b(-ad) (2(bc-ad)) + (2(a2tc2)-1(2(a2tc3)-1) + (2(cd+ab)) (2 (cd+ab)) [(b (- ad) (2 (6 d + oc)) + (0 (0 2 + c 2) - 1 (2 (cd - ab) + (2 (cd + ab) (2 (c 2 + d 2) - 1) second row = 1010 x 7 3 1 01 4- , 7 . third fow 2(bd +ac)(2(a2+b2)-1)+2(cd-ab)(2(bc-ad))1 + (2(a2+d2)-1)(2(bd+ac)) [216d +0c) (2(6C+0d) + 2(cd -0b)(2(021c2)-1)) + (2(021d2)-1)/=(cd -0b)/ 2 (bel + oc) (2 (bd - ac) + 2 (cd - ab) (2 (cd + ab)) + (2(a2 + d2)-1)(2(a2+d2)-1) Stional row = 00 thus making it a rotation Motrix

Change of Coordinates Assume known AT, WT, CT, BT Pebot A point of interest

BP = BTAP = PB

WP = MTBTAP = WP

CP = WTBTATAP = CP you Can determine all the points Au positive. Quoternions p= 1+2i-3k 9 = 5 + 4j + ak (1+21-3K)x(5+4j+3K) 5 +4j +ak + 10i +8ij +4ik -15k -12kj -6ka 5+9j + 2K +10i +8K -4j -15K +12i +6 11 +0j -5K +22i {P9 = 11 +22i -5K } 2 Norm pq $\sqrt{\left(11\right)^{2}+\left(\partial\partial\mathcal{L}\right)^{2}+\left(5K\right)^{2}}$ 121 +989 - 25 5 630 √630 ≈ 25.1·