**ME192 Homework #5 Answers**

**10-1-14**

4.9)

4.11) Solve for θ1 and θ2 in 



From (2) 

With C2 and S2 evaluated and setting K1=c2x-S2y, (1) becomes K1C1 + zS1=0 (4)

Similarly setting K2=xc2+yS2, (2) becomes-K2S1 + zC1=0 (5)

Solving (4) and (5), , Multiple solutions exists due to the ± mirror.

4.18) 2 solutions 4.19) 4 solutions

Θ2= +β

d3= -L

d3= +L

θ1=+1800

θ1= +180

4.24) From Eq. (3.6), by observation

θ1= +180

