**ME192**

**Homework #2 – Answers**

**9-10-14**

*Each problem is worth 4 points. With the extra credit problem, a maximum 24 points is possible.*

2.13

{A}

{U}

{B}

{C}

2.21 From the Taylor series, $\sin(θ)≈0 and cosθ≈1 when θ≈0$. Also $θ^{2}$=0 $when θ≈0$.

2.28 

2.31

2.37 From Eq. 2.45, the (2,4) element is the second element of the vector:

2.38

 The angle is preserved with any rotation of the vectors. Multiplying each vector by R,



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