Important Notes for Homework Answer Keys
- Answer keys are for your “self-checking” purposes only.
- There is absolutely no guarantee that answer keys are 100% accurate.
- NO PARTIAL CREDIT, if you just COPY answer keys without full explanation of your own unique solutions for the problem.

4-1 (Unit B-3)
Show that: \( \nabla \times \mathbf{V} = \mathbf{0} \)

4-2 (Unit B-3)
(a) \( (r, \theta) = (\Lambda/2\pi \mathcal{V}_e, 0) \)  
(b) \( \psi = 0 \)  
(c) \( \frac{r}{R} = \frac{\theta}{\sin \theta} \)

4-3 (Unit B-3)
2,878 lb

4-4 (Unit B-4)
(a) \( \psi = 0 \)  
(b) \( \psi = 0 \)

4-5 (Unit B-4)
\( \psi = 0.233 \mathcal{R} \mathcal{V}_e \)

4-6 (Unit B-4)
\(-3.662\)