

[Submitting HW Tips](#)**HW #8**

- 1** **Section 4.4** (Page 258): #3, 14, 24.
- 2** Prove the **Basic Identity** #7 on Page 255: $\nabla \cdot (f \vec{\mathbf{F}}) = f (\nabla \cdot \vec{\mathbf{F}}) + \vec{\mathbf{F}} \cdot \nabla f$
- 3** **Section 5.3** (Page 288): #3(c)(d), 9.
- 4** **Section 5.4** (Page 293): #2, 4(b), 5, 9.
- 5** **Section 5.5** (Page 303): #25.