DUE Wednesday, October 15, 2014.

Problems to work but not hand in:
§3.5: \#7a.
§3.6: \#2a,b.
§4.1: \#2, 3b,f, 6a, 8, 9, 10, 14, 18a,b,e.

Problems to turn in:
WeBWork Homework 8
§3.5: \#2 (2), 4 (3), 6 (2).
§3.6: \#1 (3).
A. (3) By solving an appropriate system of equations, find all the unit vectors $\mathbf{x} \in \mathbb{R}^{3}$ that make an angle of $\pi / 4$ with $\left[\begin{array}{l}0 \\ 1 \\ 1\end{array}\right]$ and an angle of $\pi / 3$ with $\left[\begin{array}{l}1 \\ 0 \\ 0\end{array}\right]$.
§4.1: \#3g (3), 15 (3), $17^{*}(3), 18 c, d, f(3)$.

Challenge problems (Turn in separately):
§3.5: \#11 (3), 14 (4), 15 (6), 16 (2).
§3.6: $\# 7^{\dagger}(4), 8(1), 9(2), 11(3)$.

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[^0]:    *For part b , first treat the case that $B$ is singular; then suppose $B$ is nonsingular and $A$ is singular. ${ }^{\dagger}$ Particularly recommended for physics and engineering majors.

