A. Due at the start of class on Day 4 (but not collected): Complete these exercises to practice basic skills. If you want more practice, then do more problems from the book.

    Section 12.4 Preliminary Question 7

    Section 12.4 Exercises 9, 11, 15, 21, 32, 33, 44, 63

B. Due at the start of class on Day 4: Complete Writing Assignment 3 (*The arrow $\Rightarrow$ indicates that one equation implies another*) from our course web site.

C. Due at the start of class on Day 6, as part of your weekly homework packet: Submit polished solutions, including all necessary work and no unnecessary work, in the order assigned.

    1. Suppose that $\vec{v}$ and $\vec{w}$ are nonzero and perpendicular. Find a vector $\vec{x}$, in terms of $\vec{v}$ and $\vec{w}$, such that $\vec{v} \times \vec{x} = \vec{w}$. Also, why is it important that $\vec{v}$ and $\vec{w}$ be perpendicular? (If they are not perpendicular, then can such an $\vec{x}$ still be found?) Also, why is it important that $\vec{v}$ and $\vec{w}$ be nonzero?

    2. Section 12.4 Exercises 65 and 66, together.