

Hints for homework problems

Math 20610, Spring 2026
Assignment, due 4/17/26

Last collected homework set!!!

1. §5.1 #4. See in the appendix, Definition A.4 for the relation between $\vec{v} \cdot \vec{w}$ and $\cos \theta$.
2. §5.1 #26 and 27. The given vectors are orthogonal. (This should make it quicker.)
3. §5.2 #33 and 35. Before using Gram-Schmidt, see if your vectors are already orthogonal. Again this should shorten the calculation.
4. §5.2 #35. Recall Theorem 3.3.5.