Name: Score: /10 HW 5 - Due: 1/18

Problem 1

Let u=2i+-j and v=3i+4j. Find $\operatorname{proj}_v u$ and $\operatorname{proj}_u v$. Graph all 4 vectors to make sure that your computation makes sense.

Problem 2

Let $u = \langle 1, 3, 5 \rangle$ and $v = \langle 2, 1, -1 \rangle$. Compute $u \times v$.

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Problem 3

Let u=2i+j+3k and v=-i+3j+2k. Find $u\times v$.

Problem 4

Let P be the plane containing the points (1,0,0), (3,2,4) and (2,1,3). Find a vector perpendicular to this plane.