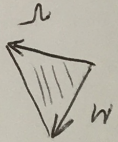


REVIEW PROBLEMS FOR MIDTERM 1

1. a) Find vectors w_1, w_2 so that $w = w_1 + w_2$ and $w_1 \parallel v$ and $w_2 \perp v$.
- b) Area of shaded area?



c) The m, n, w coplanar vectors?

d) Equation of a line which has direction given by w and passes through $P = \langle 1, 2, 3 \rangle$.

e) Equation of a plane that passes through $P = \langle 1, -1, 0 \rangle$ and $Q = \langle 2, 0, 3 \rangle$ and $R = \langle 2, 1, -1 \rangle$.

12.3: $68, 73, 46$

12.5: $64, 63$

12.2: $49, 51, 52$

13.2: 54

13.3: $32, 31$

13.4: $32, 50, 23$

14.1: $26, 34, 36$

14.2: $40, 41, 22, 26, 38, 42, 49$

14.3: $29, 40, 44, 50, 61, 63$