## Math 13 Worksheet #7: Vectors, dot product, cross product, and planes

(1) Set up the equation to find the angle between the vectors  $\overline{PQ}$  and  $\overline{PR}$  with P(3,-1,2), Q(8,2,4), and R(1,-2,-3).

(2) Compute  $\overline{PQ} \times \overline{PR}$ . Geometrically what is the result?

(3) Find the equation of the plane through P and perpendicular to the vector <1,-2,5>.