Math 13 Worksheet \#7: Vectors, dot product, cross product, and planes
(1) Set up the equation to find the angle between the vectors $\overline{P Q}$ and $\overline{P R}$ with $P(3,-1,2)$, $Q(8,2,4)$, and $R(1,-2,-3)$.
(2) Compute $\overline{P Q} \times \overline{P R}$. Geometrically what is the result?
(3) Find the equation of the plane through $P$ and perpendicular to the vector $\langle 1,-2,5\rangle$.

