

Example: find a vector that is perpendicular to the place that pesus though the points P(1, 4, 6), Q(-2,5,-1), R(1,-1,1) Answer:

Ne need 2 ve don to determine

the plane that P, R, R are in.

Example PR RP, RP

or RP, RP. E_g : $PQ = \langle -2-1, S-4, -1-6 \rangle = \langle -3, 1, -7 \rangle$ dividion vertors $PR = \langle 1-1, -1-4, 1-6 \rangle = \langle 0, -5, -5 \rangle$ for the plane with points P, Q, R· If you find a vector perpediale to PR and PR it is perpendicular to the place spanned by PD and PP. Take $\vec{n} = \vec{P} \cdot \vec{Q} \times \vec{P} \cdot \vec{P} = \vec{Q} \cdot \vec{Q} \times \vec{P} \cdot \vec{Q} = \vec{Q} \cdot \vec{Q} \times \vec{P} \cdot \vec{Q} = \vec{Q} \cdot \vec{Q} \times \vec{Q} \times \vec{Q} \times \vec{Q} = \vec{Q} \cdot \vec{Q} \times \vec{Q} \times \vec{Q} \times \vec{Q} \times \vec{Q} = \vec{Q} \times \vec{Q} \times \vec{Q} \times \vec{Q} \times \vec{Q} \times \vec{Q} \times \vec{Q} = \vec{Q} \times \vec{$











