

3: Six points coplanar

87 OF 87 GRADED

TOTAL POINTS

7.0 / 10.0 pts

1 +5.0

Find the plane through

2 +2.0

Check the other three p

3 +2.0

Figure out that the line

4 +1.0

Show that the endpoint
plane

5 +0.0

Incorrect or blank

6 -1.0

Small mistake



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Problem 3: Find a plane through the points $P(1, 2, 3)$, $Q(2, 3, 4)$, and $R(3, 4, 5)$. Show that the other three points $S(4, 5, 6)$, $T(5, 6, 7)$, and $U(6, 7, 8)$ also lie on this plane.

Solution:

a) $\vec{P} = (1, 2, 3)$
 $\vec{Q} = (2, 3, 4)$
 $\vec{R} = (3, 4, 5)$
 $\vec{S} = (4, 5, 6)$
 $\vec{T} = (5, 6, 7)$
 $\vec{U} = (6, 7, 8)$

$\vec{PQ} = \vec{Q} - \vec{P} = (1, 1, 1)$
 $\vec{PR} = \vec{R} - \vec{P} = (2, 2, 2)$
 $\vec{PS} = \vec{S} - \vec{P} = (3, 3, 3)$
 $\vec{PT} = \vec{T} - \vec{P} = (4, 4, 4)$
 $\vec{PU} = \vec{U} - \vec{P} = (5, 5, 5)$

$\vec{PQ} \times \vec{PR} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 1 & 1 \\ 2 & 2 & 2 \end{vmatrix} = \vec{i}(1 \cdot 2 - 1 \cdot 2) - \vec{j}(1 \cdot 2 - 1 \cdot 2) + \vec{k}(1 \cdot 2 - 1 \cdot 2) = \vec{0}$

$\vec{PQ} \times \vec{PS} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 1 & 1 \\ 3 & 3 & 3 \end{vmatrix} = \vec{i}(1 \cdot 3 - 1 \cdot 3) - \vec{j}(1 \cdot 3 - 1 \cdot 3) + \vec{k}(1 \cdot 3 - 1 \cdot 3) = \vec{0}$

$\vec{PQ} \times \vec{PT} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 1 & 1 \\ 4 & 4 & 4 \end{vmatrix} = \vec{i}(1 \cdot 4 - 1 \cdot 4) - \vec{j}(1 \cdot 4 - 1 \cdot 4) + \vec{k}(1 \cdot 4 - 1 \cdot 4) = \vec{0}$

$\vec{PQ} \times \vec{PU} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 1 & 1 \\ 5 & 5 & 5 \end{vmatrix} = \vec{i}(1 \cdot 5 - 1 \cdot 5) - \vec{j}(1 \cdot 5 - 1 \cdot 5) + \vec{k}(1 \cdot 5 - 1 \cdot 5) = \vec{0}$

Since all the cross products are zero, the vectors $\vec{PQ}, \vec{PR}, \vec{PS}, \vec{PT},$ and $\vec{PU}$ are all parallel to each other. This means that the points $P, Q, R, S, T,$ and U all lie on the same line, and therefore on the same plane.

b) $\vec{P} = (1, 2, 3)$
 $\vec{Q} = (2, 3, 4)$
 $\vec{R} = (3, 4, 5)$
 $\vec{S} = (4, 5, 6)$
 $\vec{T} = (5, 6, 7)$
 $\vec{U} = (6, 7, 8)$

$\vec{PQ} \times \vec{PR} = \vec{0}$
 $\vec{PQ} \times \vec{PS} = \vec{0}$
 $\vec{PQ} \times \vec{PT} = \vec{0}$
 $\vec{PQ} \times \vec{PU} = \vec{0}$

$\vec{PQ} \times \vec{PS} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 1 & 1 \\ 3 & 3 & 3 \end{vmatrix} = \vec{i}(1 \cdot 3 - 1 \cdot 3) - \vec{j}(1 \cdot 3 - 1 \cdot 3) + \vec{k}(1 \cdot 3 - 1 \cdot 3) = \vec{0}$

$\vec{PQ} \times \vec{PT} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 1 & 1 \\ 4 & 4 & 4 \end{vmatrix} = \vec{i}(1 \cdot 4 - 1 \cdot 4) - \vec{j}(1 \cdot 4 - 1 \cdot 4) + \vec{k}(1 \cdot 4 - 1 \cdot 4) = \vec{0}$

$\vec{PQ} \times \vec{PU} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 1 & 1 \\ 5 & 5 & 5 \end{vmatrix} = \vec{i}(1 \cdot 5 - 1 \cdot 5) - \vec{j}(1 \cdot 5 - 1 \cdot 5) + \vec{k}(1 \cdot 5 - 1 \cdot 5) = \vec{0}$

Since all the cross products are zero, the vectors $\vec{PQ}, \vec{PR}, \vec{PS}, \vec{PT},$ and $\vec{PU}$ are all parallel to each other. This means that the points $P, Q, R, S, T,$ and U all lie on the same line, and therefore on the same plane.

c) $\vec{P} = (1, 2, 3)$
 $\vec{Q} = (2, 3, 4)$
 $\vec{R} = (3, 4, 5)$
 $\vec{S} = (4, 5, 6)$
 $\vec{T} = (5, 6, 7)$
 $\vec{U} = (6, 7, 8)$

$\vec{PQ} \times \vec{PR} = \vec{0}$
 $\vec{PQ} \times \vec{PS} = \vec{0}$
 $\vec{PQ} \times \vec{PT} = \vec{0}$
 $\vec{PQ} \times \vec{PU} = \vec{0}$

$\vec{PQ} \times \vec{PS} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 1 & 1 \\ 3 & 3 & 3 \end{vmatrix} = \vec{i}(1 \cdot 3 - 1 \cdot 3) - \vec{j}(1 \cdot 3 - 1 \cdot 3) + \vec{k}(1 \cdot 3 - 1 \cdot 3) = \vec{0}$

$\vec{PQ} \times \vec{PT} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 1 & 1 \\ 4 & 4 & 4 \end{vmatrix} = \vec{i}(1 \cdot 4 - 1 \cdot 4) - \vec{j}(1 \cdot 4 - 1 \cdot 4) + \vec{k}(1 \cdot 4 - 1 \cdot 4) = \vec{0}$

$\vec{PQ} \times \vec{PU} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 1 & 1 \\ 5 & 5 & 5 \end{vmatrix} = \vec{i}(1 \cdot 5 - 1 \cdot 5) - \vec{j}(1 \cdot 5 - 1 \cdot 5) + \vec{k}(1 \cdot 5 - 1 \cdot 5) = \vec{0}$

Since all the cross products are zero, the vectors $\vec{PQ}, \vec{PR}, \vec{PS}, \vec{PT},$ and $\vec{PU}$ are all parallel to each other. This means that the points $P, Q, R, S, T,$ and U all lie on the same line, and therefore on the same plane.

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