Worked example	Your turn
The plane Π is perpendicular to the normal	The plane Π is perpendicular to the normal
n = 2i - j + 3k and passes through the point P	n = 3i - 2j + k and passes through the point P
with position vector $4i - 8j + 7k$.	with position vector $8i + 4j - 7k$.
Find the Cartesian equation of Π .	Find the Cartesian equation of Π .

3x - 2y + z = 9

Worked example	Your turn
Show that the points $(3, 2, 2)$, $(3, 5, 1)$, $(-1, 3, 4)$ and $(-1, 6, 3)$ are coplanar.	Show that the points $(2, 2, 3)$, $(1, 5, 3)$, $(4, 3, -1)$ and $(3, 6, -1)$ are coplanar.
	Shown

Worked example	Your turn
Show that the points $(3, 2, 2)$, $(3, 5, 1)$, $(-1, 3, 4)$ and $(-1, 6, 4)$ are not coplanar.	Show that the points $(2, 2, 3)$, $(1, 5, 3)$, $(4, 3, -1)$ and $(4, 6, -1)$ are coplanar.
	Shown