

Question 21276

Two vectors are perpendicular if their dot product is equal to zero. For given vector $\vec{a}(3, -2, 3)$ and $\vec{b}(x, 3, -3)$, $\vec{a} \cdot \vec{b} = 3x - 6 - 9 = 3x - 15$. It is equal to zero when $x = 5$.