\[ s = -6i + 2j - k \], determine the value of \( P_z \) for which the three vectors are coplanar.

3.45 The 0.732 \times 1.2\text{ m} \text{ lid } ABCD \text{ of a storage bin is hinged along side } AB \text{ and is held open by looping cord } DEC \text{ over a frictionless hook at } E. \text{ If the tension in the cord is } 54 \text{ N}, \text{ determine the moment about each of the coordinate axes of the force exerted by the cord at } D.

3.46 The 0.732 \times 1.2\text{ m} \text{ lid } ABCD \text{ of a storage bin is hinged along side } AB \text{ and is held open by looping cord } DEC \text{ over a frictionless hook at } E. \text{ If the tension in the cord is } 54 \text{ N}, \text{ determine the moment about each of the coordinate axes of the force exerted by the cord at } C.

3.47 A fence consists of wooden posts and a steel cable fastened to each post and anchored in the ground at A and D. Knowing that the sum of the moments about the z axis of the forces exerted by the cable on the posts at B and C is \(-66 \text{ N} \cdot \text{m}\), determine the magnitude of \( T_{CD} \) when \( T_{BA} = 56 \text{ N} \).