

Mathematics Questions by Topics

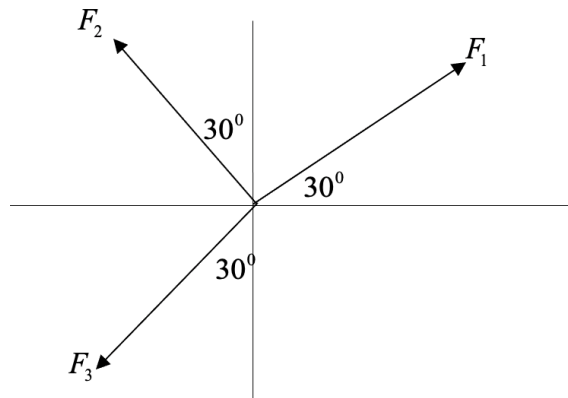
Motion and Force

Question 38

Source: K9SM2Q11

Question 38

Three co-planar forces, F_1, F_2, F_3 act on a particle in equilibrium as shown in the diagram below



It follows that

- A. $F_1 = F_2 = F_3$
- B. $3F_2 = \sqrt{3}F_1$ and $F_2 = \frac{2}{3}F_3$
- C. $F_1 = \sqrt{3}F_2$ and $F_3 = 2F_2$
- D. $\sqrt{3}F_1 = 3F_2$ and $F_2 = \frac{3}{2}F_3$
- E. $\sqrt{3}F_3 = 3F_2$ and $F_1 = \frac{3}{2}F_3$