

Mathematics Questions by Topic

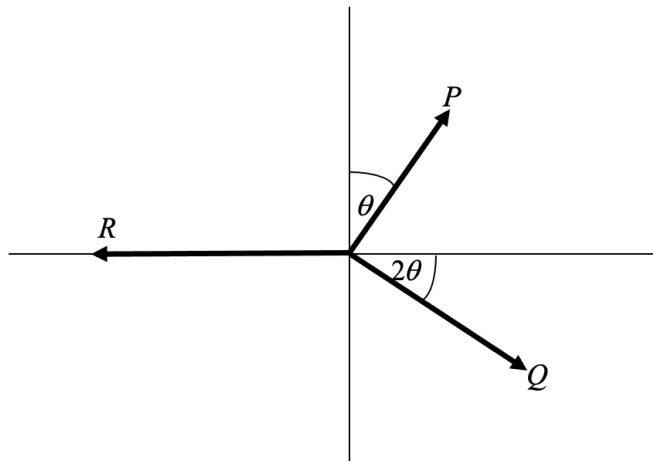
Motion and Force

Question 20

Source: K14SM2Q20

Question 20

Three coplanar forces of magnitudes P , Q and R newtons act on a particle that is in equilibrium as shown in the diagram below.



Then,

- A.** $Q = R$ and $P = 2R \sin(\theta)$
- B.** $Q = R$ and $P = 2R \cos(\theta)$
- C.** $Q = 2P$ and $R = P \sin(\theta)$
- D.** $P = Q$ and $R = 2P \sin(\theta)$
- E.** $P + Q + R = 0$