

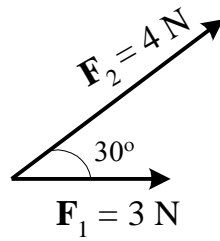
1. The resultant of the two forces P and Q is R. If Q is doubled, the new resultant is perpendicular to P. Then

- A. $Q = R$
- B. none of these
- C. $P = Q$
- D. $Q = 2R$

2. The shape of the bending moment diagram over the length of a beam, carrying a uniformly distributed load is always:

- A. linear
- B. **parabolic**
- C. cubical
- D. circular

3. The magnitude of the resultant force of F_1 and F_2 is:



- A. **6.77 N**
- B. 6.06 N
- C. 4.96 N
- d. 4.6 N