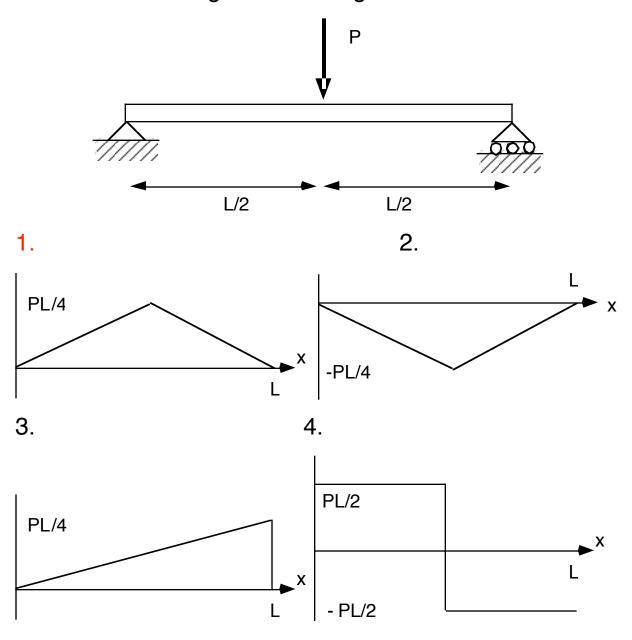
M3 Concept Question 1

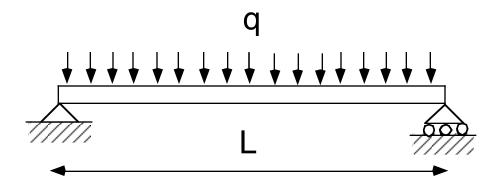
For the simply supported beam shown below, which is the correct bending moment diagram:



- 5. The bending moment is constant PL/2 everywhere
- 6. Some other answer
- 7. I do not know/do not understand

M3 Concept Question 2

For the simply supported beam with a uniform distributed loading q (per unit length), the most correct expression or the bending moment distribution is:



$$1. \qquad M = \frac{qLx}{2} - \int_{0}^{x} qx dx$$

$$2. \qquad M = \int_{0}^{x} qx dx - \frac{qLx}{2}$$

$$3. M = qLx$$

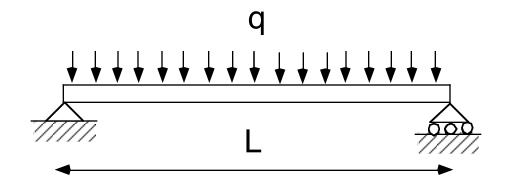
$$4. \qquad M = qL/2$$

$$5. M = qL/4$$

- 6. Some other answer
- 7. I don't know/don't understand.

M3 Concept Question 3

For the simply supported beam with a uniform distributed loading q (per unit length), the most correct expression or the shear force distribution is



1.
$$S = q$$

$$2. S = qx$$

3.
$$S = qL$$

$$4. \qquad S = \int_{0}^{x} q dx$$

$$S = \frac{qL}{2} - \int_{0}^{x} q dx$$

- 6. Some other answer
- 7. I don't know/don't understand.