

Solutionbank M1

Heinemann Modular Maths for Edexcel AS and A-level

5 Newton's laws of motion

Exercise B, Question 2

Question:

The acceleration of a particle of mass 2 kg is 3 m s^{-2} . Find the magnitude of the resultant force on the particle.

Solution:

Newton's 2nd Law in the direction of the acceleration gives

$$F = 2 \times 3$$

$$\therefore F = 6 \text{ N}$$

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