

Solutionbank M1

Heinemann Modular Maths for Edexcel AS and A-level

4 Forces

Exercise Test yourself, Question 1

Question:

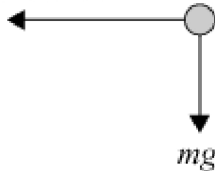
Draw diagrams to show the forces acting on each of the following. You should include air resistance where appropriate, and model each body as a particle.

- A golf ball at its maximum height.
- A cyclist travelling up a slope at a constant speed.
- A child on a swing at her lowest position.

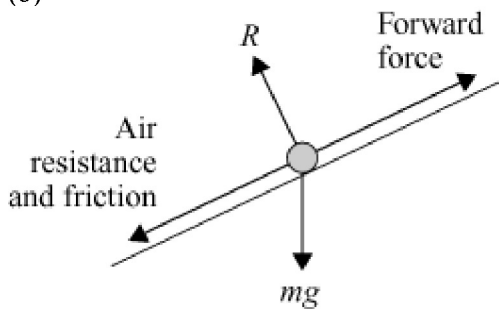
Solution:

(a)

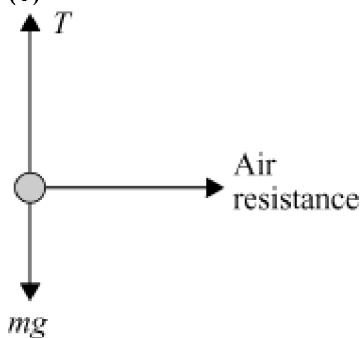
Air resistance



(b)



(c)



© Harcourt Education Ltd 2005