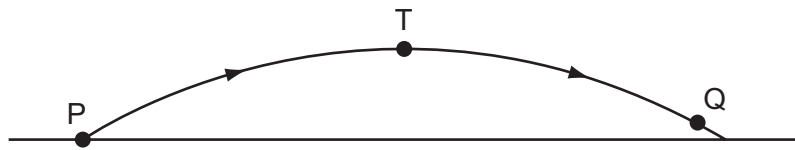
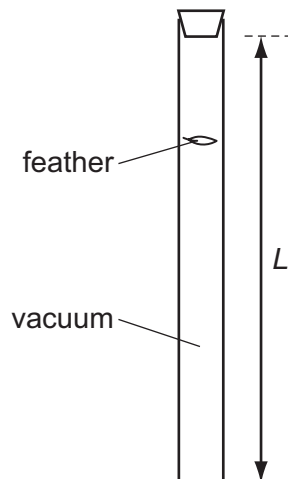


- 8 In the absence of air resistance, a stone is thrown from P and follows a parabolic path in which the highest point reached is T. The stone reaches point Q just before landing.



The vertical component of acceleration of the stone is

- A zero at T.
 - B larger at T than at Q.
 - C larger at Q than at T.
 - D the same at Q as at T.
- 9 The diagram shows a laboratory experiment in which a feather falls from rest in a long evacuated vertical tube of length L .



The feather takes time T to fall from the top to the bottom of the tube.

How far will the feather have fallen from the top of the tube in time $0.50 T$?

- A $0.13 L$ B $0.25 L$ C $0.38 L$ D $0.50 L$

Space for working