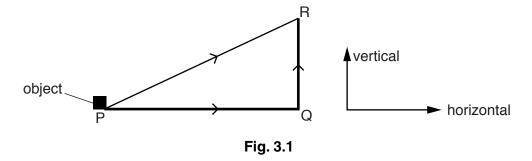
3 (a) An object is moved from point P to point R either by a direct path or by the path P to Q to R, as shown in Fig. 3.1.



P and Q are on the same horizontal level. R is vertically above Q.

Explain whether the work done different along paths PR and Po	gravitational field is the same of	or
	 [2]

(b) A ball is thrown with an initial velocity V at an angle θ to the horizontal, as shown in Fig. 3.2.

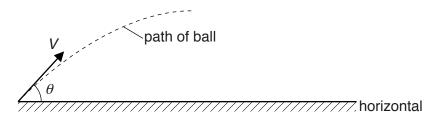


Fig. 3.2 (not to scale)

The variation with time *t* of the height *h* of the ball is shown in Fig. 3.3.

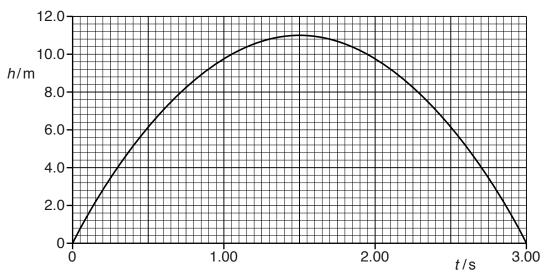


Fig. 3.3

Air resistance is negligible.

