7

Particles P and Q are projected in the same vertical plane from a point O at the top of a cliff. The height of the cliff exceeds  $50 \,\mathrm{m}$ . Both particles move freely under gravity. Particle P is projected with

_	- , <b>F</b>	's after the projection of p	ratticie g.
	pressions, in terms of $T$ , for the large show that $4uT = 2$		nents of $P$ and $Q$ from $Q$
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Find the horizonta	al and vertical displa	cements of the part	ticles from O when the	y collide.
				•••••