hori	he and moves freely under gravity. The direction of motion of P makes an angle α above the zontal when P first reaches three-quarters of its greatest height.
(a)	Show that $\tan \alpha = \frac{1}{2} \tan \theta$. [6]

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Given that $\tan \theta = \frac{4}{3}$, find the horizontal distance travelled by <i>P</i> when it first report of its greatest height. Give your answer in terms of <i>u</i> and <i>g</i> .	[4]	