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$= 0, v^2 m c g dt dv = -d$. Multiply both sides by m/cd . $gv^2 c m dt dv c m dd = -$. Define $a = mg /cd$. $a^2v^2 dt dv c m. d = -$. Integrate by separation of variables, $dt m c a v \int dv = \int d^2 -2$.

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