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$\frac{dv}{dt} = a - 2v$  c d dt Integrate separation of variables,  $\frac{dv}{a - 2v} = dt$  A table of integrals can be consulted to find that  $\int \frac{1}{a - 2v} dv = -\frac{1}{2} \ln|a - 2v| + C$  Therefore, the integration yields  $\ln|a - 2v| = -2t + C$  ...

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