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missing  $y$   $p(t)$   $g(t)$  we can solve it by the substitutions  $u = y$  and  $u = y'$  to change the equation to a first order linear equation use the integrating factor method to solve for  $u$  and then integrate  $u$  to find  $y$  that is 1 substitute  $u = p(t)u + g(t)$

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