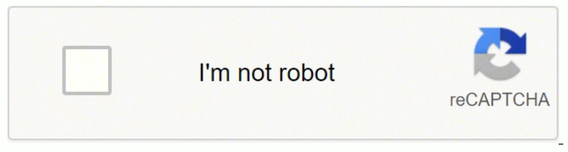

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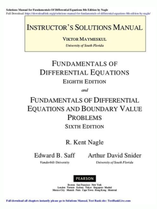
Worksheet 5. 1 separable differential equations answers



As with the first linear order officially, we will collect a constant of integration on both sides of the integrals on each side of the equal sign. Then, for our case, we have to avoid two values of \ (x \). In addition, after the integrations, we will have an implicit solution that we can solve for the explicit solution, \ (and (x) \). \ [\ Frac {{d &} {{dx}} = 6 {and ^ 2} \ hspace {0.25in} \, \, \, and \, \, \, \, y \ left (1 \ right) = \ FRAC {1} {{25}} \] Show solution It is clear, hopefully, that this differential equation is separable. First, we need to avoid \ (\ theta = 0 \) due to the natural record. Let's start things with a fairly simple example so we can see the process without getting lost in details of the other problems that often arise with these problems. Then, to find out when it is correct we can reapply the initial condition to this. Example 3 solves the next IVP and finds the validity interval of the solution. \ [- \ frac {1} {2} = \ ln \ left (1 \ right) + c \ hspace {0.25in} c = - \ frac {1} {2} \] Then, the implicit solution is then, \ [- \ Frac {1} {R} = \ ln \ left | \ right | - \ Frac {1} {2} {1} {2} \] The resolution of \ (R \) takes our explicit solution. \ [\ begin {align *} {and ^ {\ \}} dy & = x {\ \ \ \ {1 + ^ 2} \ right) ^ {1} {2}}}} \, dx \\ \ int {{{and ^ 3}} dy}}}} & = \ int {{{{{{1 + ^ 2}} \ right)} {- \ fragrant {1} {2}}} \, dx}} \ \ frac {1} {{2 {and ^ 2}}}} & = \ sqrt {1 + ^ 2} + c \ end {align *} \] Apply the initial condition to obtain the value of \ (c \). Second, you must contain the value of the independent variable in the initial condition, x = 1 in this case. Show Mobile Notice Show all notes Hide all notes Notice Mobile Notice that seems to be on a device with a "narrow" screen width (ES That is on a mobile phone). Therefore, the validity interval of the solution is \ (x \ GE - 3. {{36523}} \). \ [\ begin {align *} \ frac {1} {2} - \ ln \ left | \ right | & = 0 \\ \ ln \ left | \ right | & = \ frac {1} {2} \ hspace {0.25in} {\ mbox {Exponentiate both sides}} \\ & & \ right | = {{\ bf {e}} ^ {\ frac {1} {2}}} {2}}} \ \ THETA & = \ PM \ SQRT {\ bf {e}} \ Fin {align *} \] Entonces, estos tres Los puntos rompen la alineaciÃ³n del nÃºmero en cuatro porciones, cada una de las cuales podrÃa ser un intervalo de validez. Por lo tanto, el intervalo de validez para esta soluciÃ³n es. \ [- \ frac {1} {{{{ ^ {1} / {} {} / {}} {{25}}}} = 3 {\ \ \ _} - 28 \] Conecte esto a la soluciÃ³n general y luego resuelva para obtener una soluciÃ³n explÃcita. Entonces, consigue las cosas separadas y luego integrarse. Esta soluciÃ³n es lo suficientemente fÃ¡cil como para obtener una soluciÃ³n explÃcita, sin embargo, antes de obtener que generalmente es mÃ¡s fÃ¡cil encontrar el valor de la constante en este punto. \ [\ comienzan {Array} {C} - \ INFTY

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