Question #54710, Math / Differential Equations

Find the differential equation of the family of curves y e (Acos x Bsin x) x = + where A and

B are arbitrary constants and hence solve the equation.

Answer.

y = Acosx + Bsinxy' = -Asinx + Bcosxy'' = -Acosx - BsinxSo y'' + y = 0

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