**Math 163  
14.4: Tangent Planes and Linear Approximations  
Questions for flipped class**

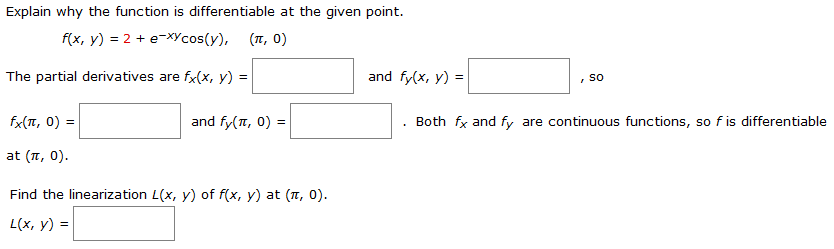
**(14.4.1)**

Find an equation of the tangent plant to  at the point 

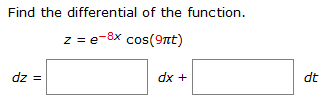
**(14.4.3)**

Find the linear approximation of  at  and use it to approximate . (Round to five decimal places).

**(14.4.2)**

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**(14.4.4)**



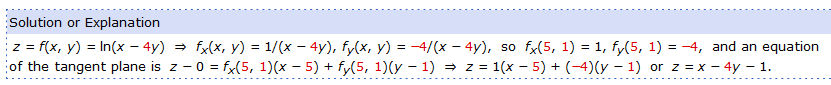
**(14.4.5)**

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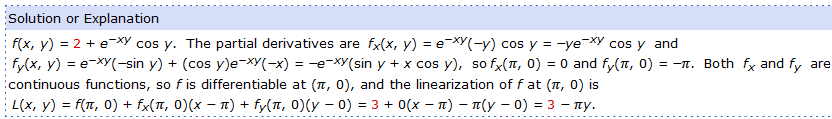
**(14.4.6)**



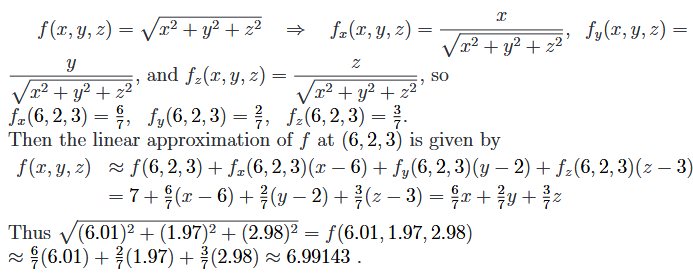
**(14.4.1 solution)**



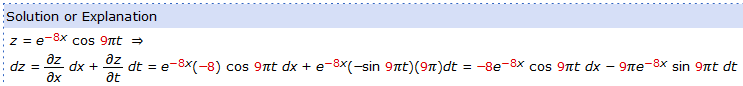
**(14.4.2 solution)**

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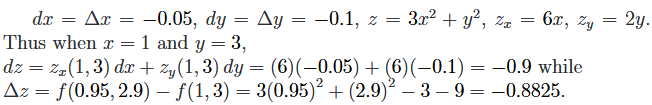
**(14.4.3 solution)**



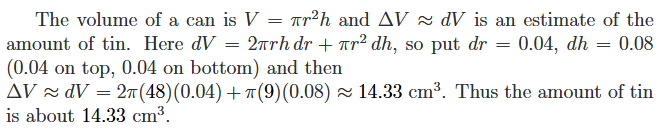
**(14.4.4 solution)**

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**(14.4.5 solution)**

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**(14.4.6 solution)**

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