Math 112J

1-24-12

Worksheet 1: Linearization Problems

Find the linearization *L*(*x*) of the function at *a*. Illustrate by graphing *f* and *L* together on an interval of *x* values containing *a*.

1. 
2. 
3. 
4. 
5. 

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Worksheet 2: Differentials

Compute numerical values for  and d*y* for the given values of *x* and *dx* = . Then sketch a diagram like figure 6 on p.208 showing the function, the tangent line, and line segments with lengths *dx*, *dy*, and .

1. 
2. 
3. 
4. 
5. 