- pages $34-35 \# 2,3,4,5$
- page $56 \# 2,3$
- Turn in your Excel worksheets for Examples 2.4.1

Please save this as Lastnames2.4.xls.

- Solve the following exact differential equations:

1. $\left(y^{3}-y^{2} \sin x-x\right) d x+\left(3 x y^{2}+2 y \cos x\right) d y=0$
2. $(\tan x-\sin x \sin y) d x+\cos x \cos y d y=0$
3. $(4 y+2 x-5) d x+(6 y+4 x-1) d y=0$, with $y(-1)=2$.

- Solve the following exact differential equations using integrating factors

1. $\left(y^{\prime}+3 x^{2} y=x^{2}\right.$
2. $\left(1+e^{x}\right) \frac{d y}{d x}+e^{x} y=0$
3. $x \frac{d y}{d x}+(3 x+1) y=e^{-3 x}$
