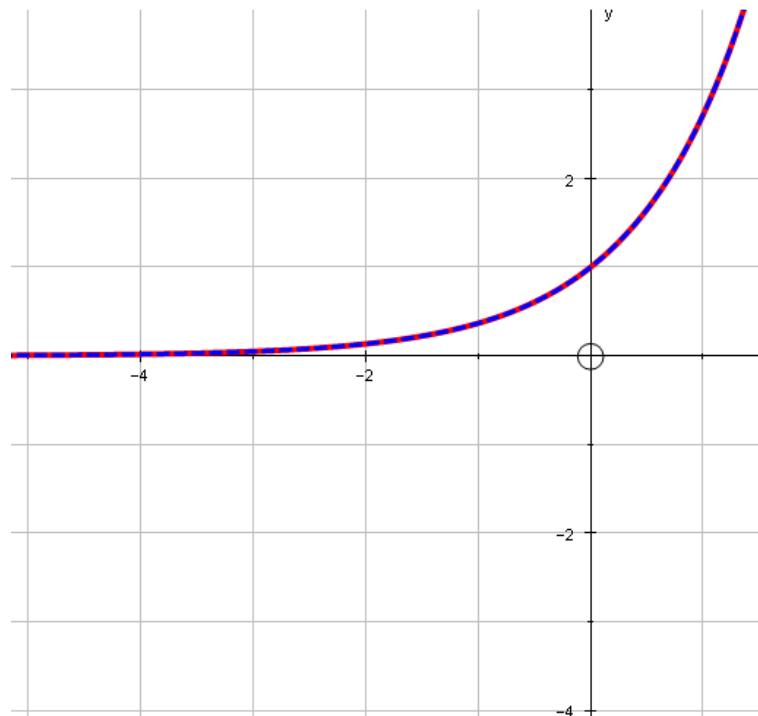
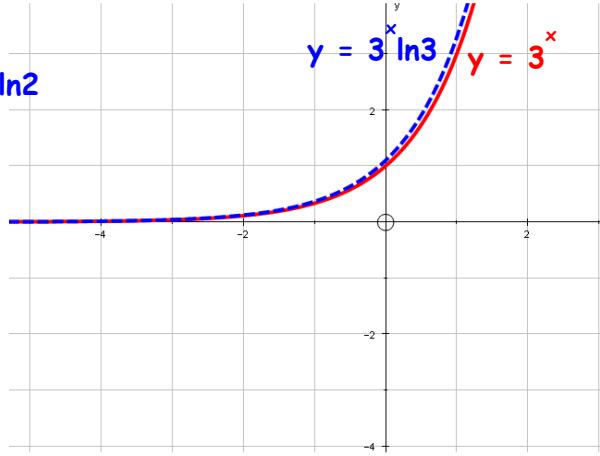
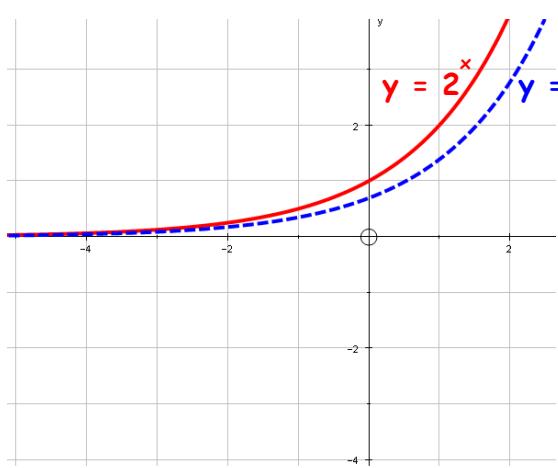


14B Euler's Number 'e'



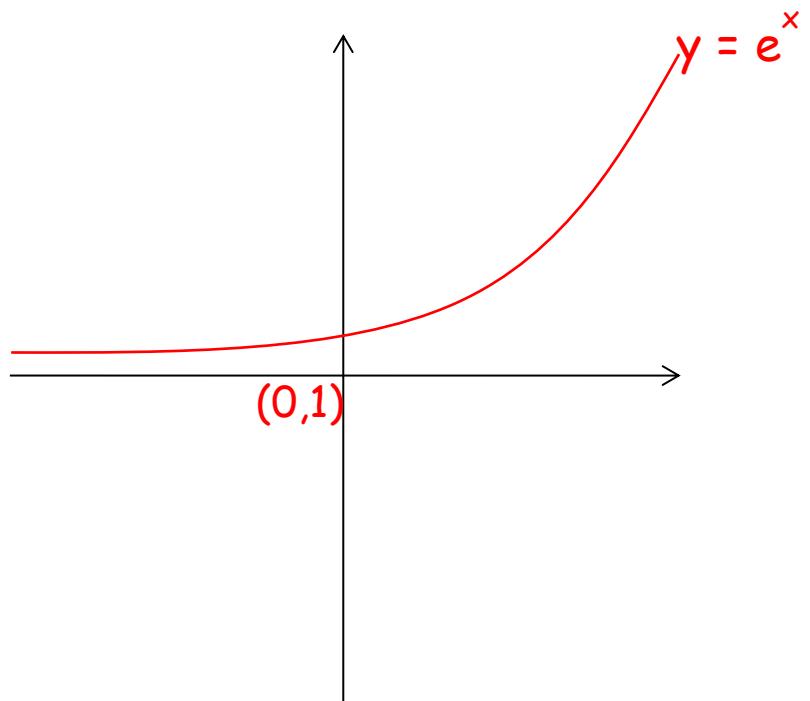
1) Differentiate the following with respect to x:

a) $y = e^{2x}$

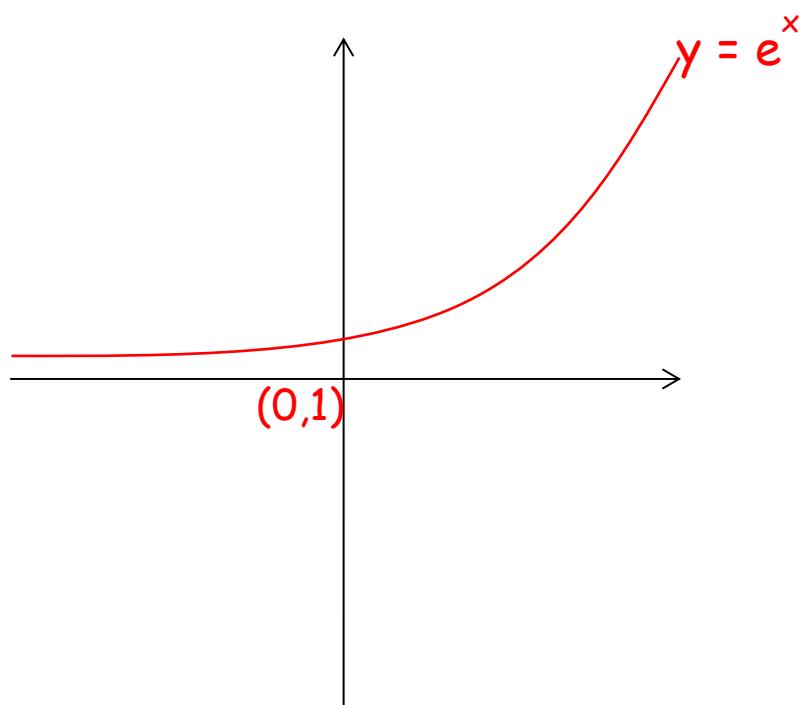
b) $y = e^{-\frac{1}{2}x}$

c) $y = 3e^{2x}$

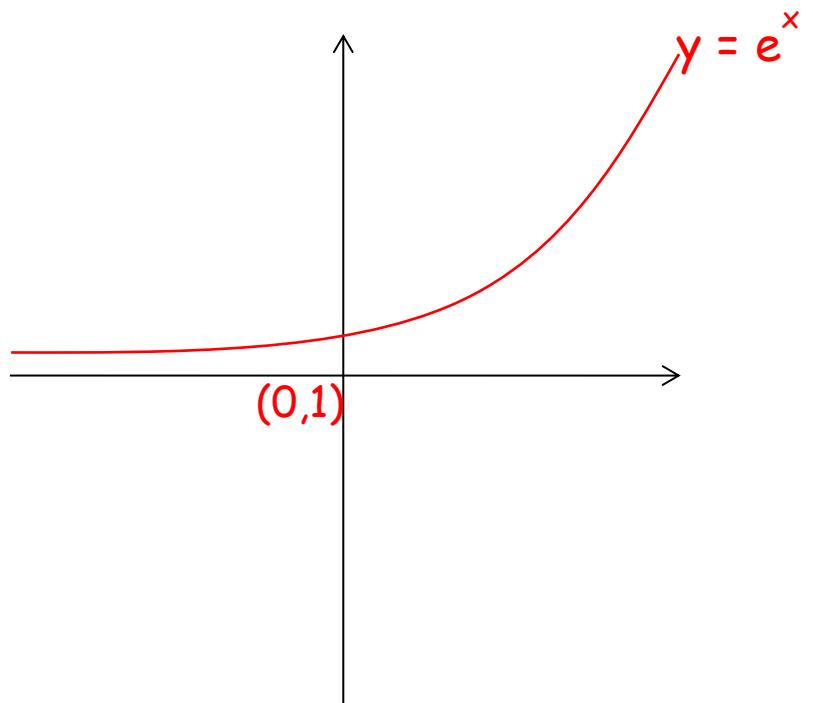
2. a) Sketch $y = 2e^x$



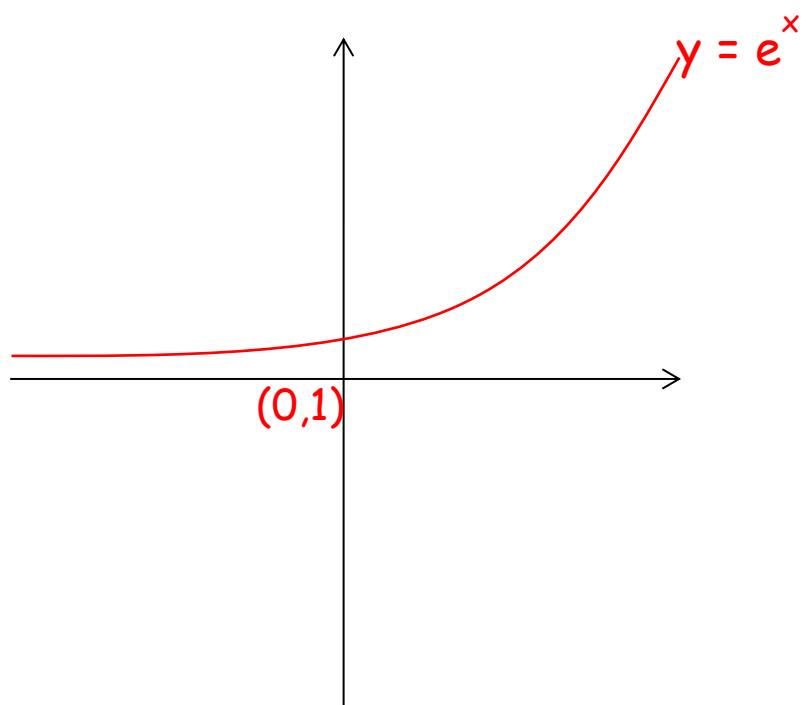
b) Sketch $y = e^x + 2$



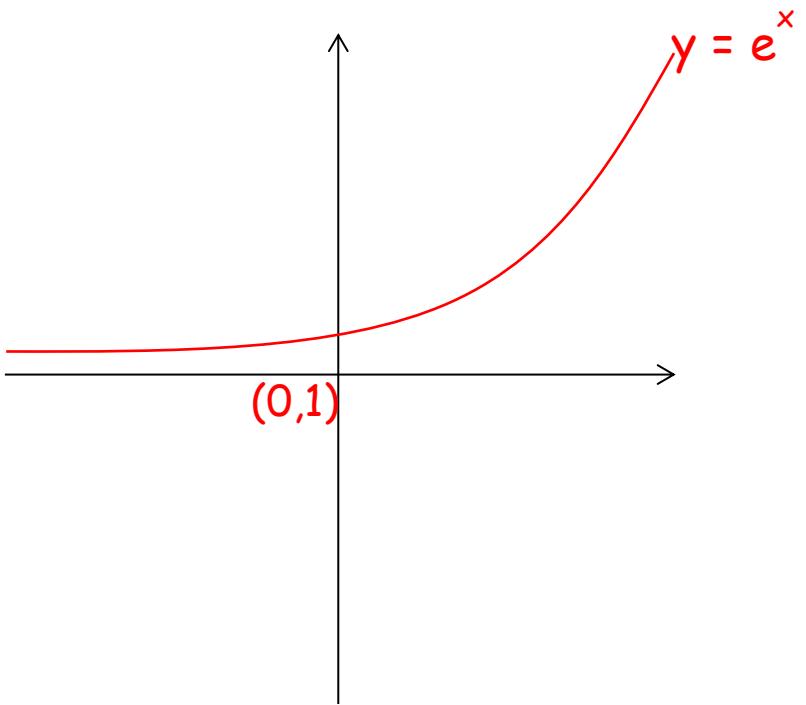
c) Sketch $y = -e^x$



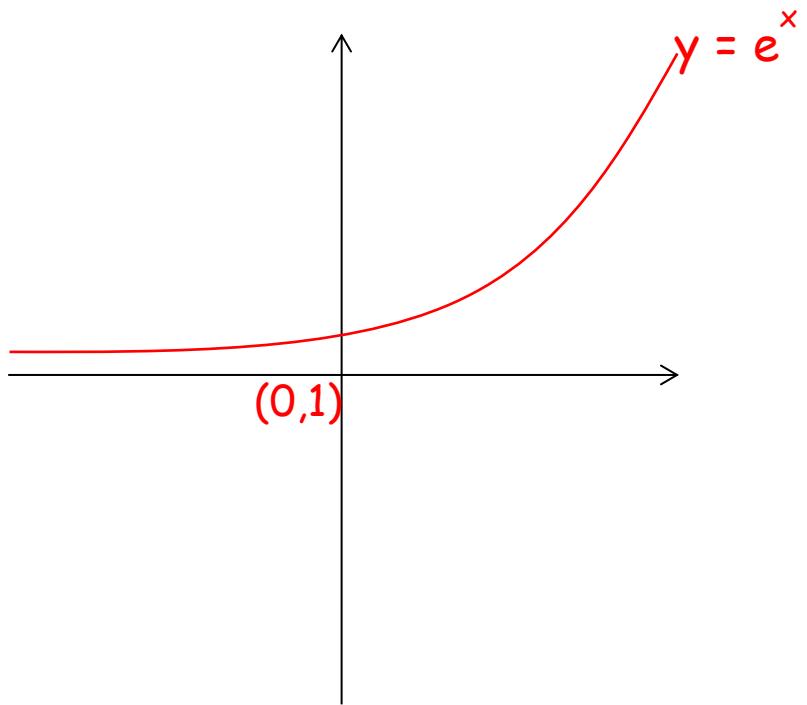
d) Sketch $y = e^{2x}$



e) Sketch $y = e^{x+1}$



f) Sketch $y = 10e^{-x}$



g) Sketch $y = 3 + 4e^{0.5x}$

