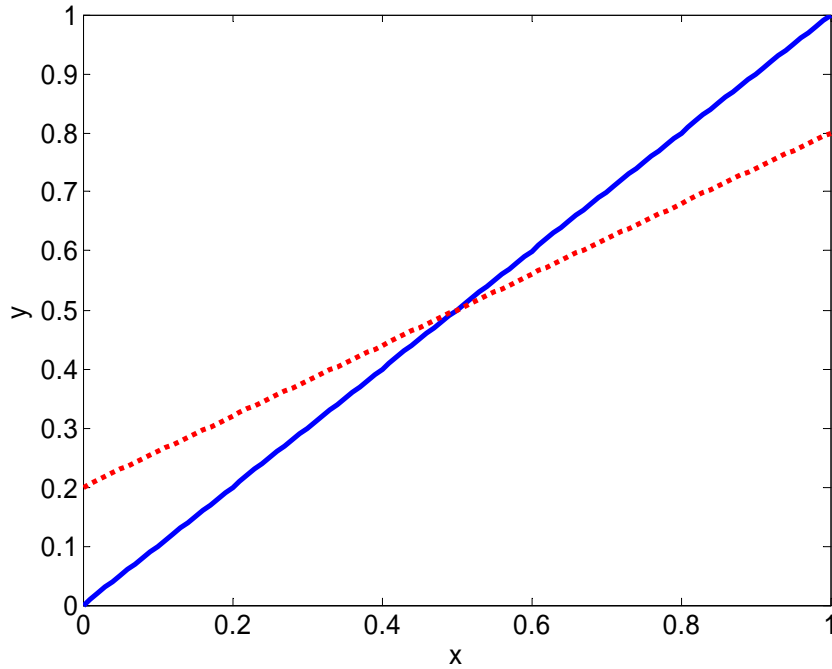
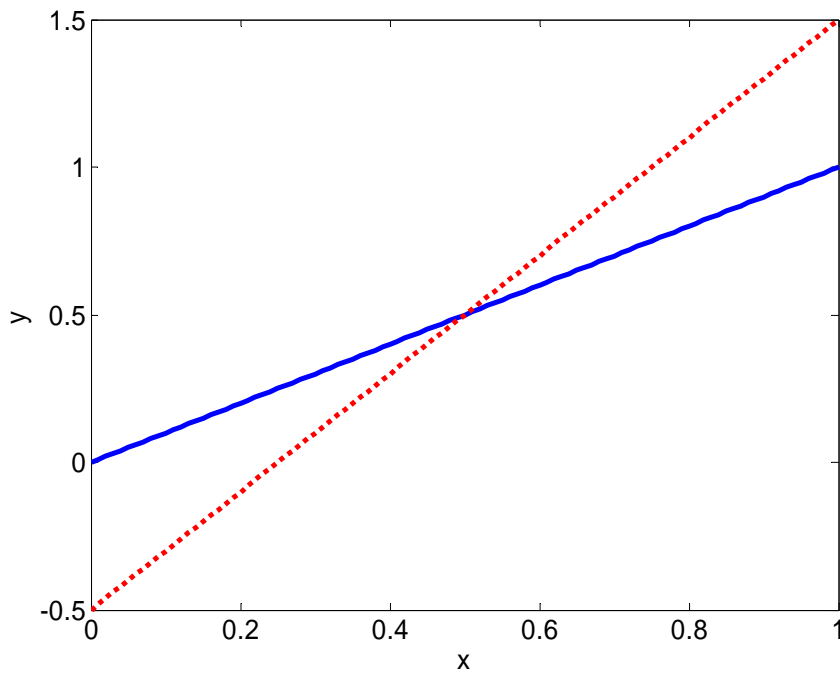


Cobweb plots: dynamical systems analysis

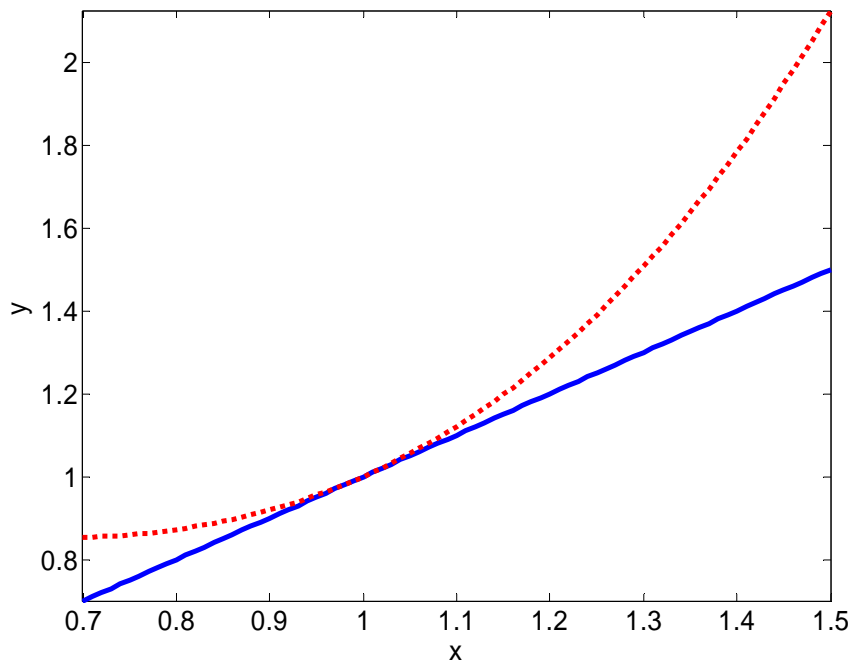
In all questions, dotted line is $y = f(x)$, solid line is $y = x$. Determine the stability of the fixed point (NB Fixed point is where the lines cross)



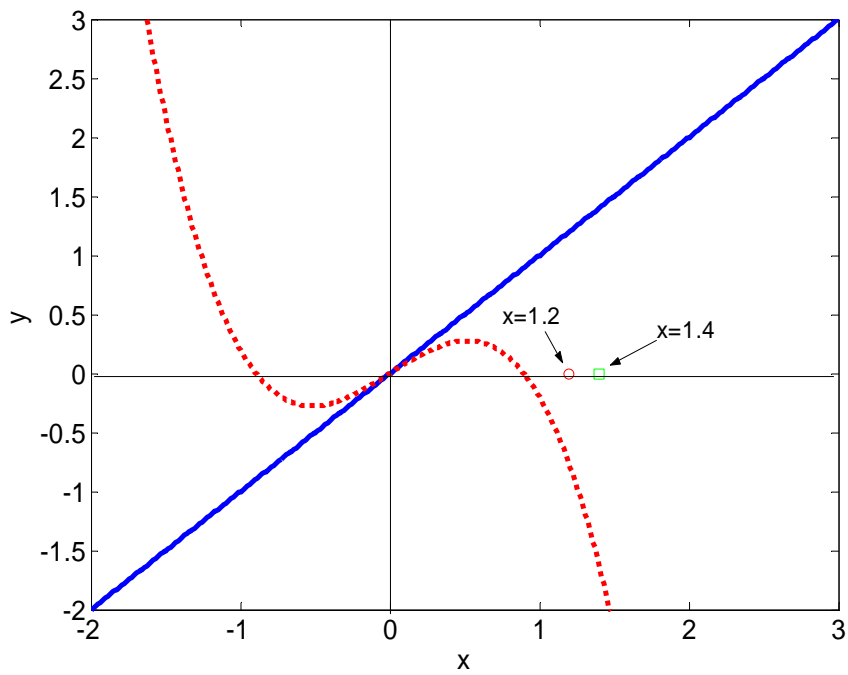
1) $y = 0.6x + 0.2$: Start from $x=0.2$ and $x=0.75$



2) $y = 2x - 0.5$: Start from $x=0.4$ and $x=0.6$



3) $y = x^3 - x^2 + 1$: Start from $x=0.75$ and $x=1.2$



4) $y = 0.8x - x^3$: Start from $x=1.2$ and $x=1.4$