## MATH 133 -- Calculus with Fundamentals <br> Shifting and Scaling Examples <br> September 7, 2015

with(plots) :
Here are graphs corresponding to parts (b) through (f) of question 4 on the worksheet from September 7:
Each time, the original graph $y=x^{3}$ is shown in dotted black, while the transformed graph is shown in
red

| Part (a) | Part (b) | Part (c) |
| :---: | :---: | :---: |
|  |  |  |


| Part (d) |  | Part (f) |
| :---: | :---: | :---: |
| 15 <br> 10 <br> 5 <br> $\vdots$ <br> $\vdots$ <br> $\vdots$ | $\left.\begin{array}{c}8 \\ 6 \\ 4 \\ 2\end{array}\right]$ | $\left.\begin{array}{c}8 \\ 6 \\ 4 \\ 4 \\ 2\end{array} \begin{array}{c}\vdots \\ \vdots \\ \vdots \\ \vdots \\ \vdots\end{array}\right]$ |
| $\begin{array}{cc\|c} -2 & \vdots & 1 \\ \vdots & 2 \\ \vdots & -5 & \\ \vdots & \\ -10 & \\ & & \\ -15 & \end{array}$ |  |  |

