Section 5.3 Area and the definite integral. (Minimum Homework: 1, 3, 5, 7)
\#1-8: Create rectangles (using right endpoints) to estimate the area between the curve and the x-axis.

Specifically:
a) Use your calculator to create a graph of the function and make a copy of the graph to write on.
b) Determine the width of each rectangle that will be used to estimate the area.
(Each rectangle will have a width; $\frac{b-a}{n}$ )
c) Increment by the interval width and draw rectangles on your graph.
d) Find the area of each rectangle. (Let the height of the rectangle be the function value at the right endpoint of the rectangle.)
e) Add the individual areas to get an estimate of the area under the curve.
(Round the y-coordinates to 2-decimal places when appropriate.)

1) $f(x)=x^{2}+2$; from $a=1$ to $b=5$ using 2 rectangles
2) $f(x)=x^{2}+1$;from $a=2$ to $b=6$ using 2 rectangles
3) $f(x)=x^{2}+2$; from $a=1$ to $b=5$ using 4 rectangles
4) $f(x)=x^{2}+1$; from $a=2$ to $b=6$ using 4 rectangles
5) $f(x)=12-x^{2}$; from $a=0$ to $b=3$ using 3 rectangles
6) $f(x)=10-x^{2}$; from $a=0$ to $b=3$ using 3 rectangles
7) $f(x)=12-x^{2}$; from $a=-1$ to $b=2$ using 3 rectangles
8) $f(x)=10-x^{2}$; from $a=-1$ to $b=2$ using 3 rectangles
