Using Horizontal and Vertical Flips

Quick Review	
When x is replaced with - x , the graph of $y = f(x)$ is flipped across the y -axis.	If the function $y = x^2 - 2x$ is flipped across the y-axis, the new equation is $y = x^2 + 2x$
When y is replaced with $-y$, the graph of $y = f(x)$ is flipped across the x-axis.	If the function $y = x^2 - 2x$ is flipped across the x-axis, the new equation is $-y = x^2 - 2x$, or $y = -x^2 + 2x$

Problems

- What is the equation of the function formed by flipping $y = x^2 + x$ across the x-axis?
- What is the equation of the function formed by flipping y = 2x 3
 - a) across the x-axis?
- b) across the y-axis? c) across both axes
- 3. What is the equation of the function formed by flipping y = |x| + 2x
 - a) across the x-axis?
- b) across the y-axis? c) across both axes
- 4. What is the equation of the function formed by flipping $y = 2e^{-x} \frac{1}{x}$
 - a) across the x-axis?
- b) across the y-axis? c) across both axes
- 5. The graph below is some function y = f(x). Sketch the graphs of
 - a) y = f(-x)
- b) y = -f(x) c) y = -f(-x)

