Complete the Square, $a=1$, Problem Set

Rewrite in vertex form by completing the square

1. $y = x^2 + 4x + 1$

2. $y = x^2 + 8x + 3$

3. $y = x^2 + 6x + 2$

4. $y = x^2 + 4x - 3$

5. $y = x^2 + 6x - 4$
6. Use a graphing calculator to verify that the two forms of each function in #4 and #5 are equivalent.

7. Graph the functions 1-5 in the space provided below.