Converting Between Vertex and Standard Form Worksheet

 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part A: Convert the following equations to vertex form by completing the square

1. y= x2 + 8x -9 2) y= 2x2 - 16x + 24

3) y= 3x2 + 18x -16 4) y= 4x2 -20x +8

Part B: Convert the following equations into standard form from vertex form by expanding and simplifying.

5) y= 3(x-4)2 +2 6)y= 2(x-1)2

7) y= 5(x-2)2 -2 8) y= $\frac{1}{2}$ (x+6)2 -2