The vertex from standard form

Name _____ Date _____

1. $y = -2x^2 + 4x + 8$ vertex: _____

2. $y = 3x^2 + 30x + 87$ vertex: _____

3. $y = -2x^2 + 4x - 4$ vertex: _____

4. $y = -2x^2 + 8x - 18$ vertex: _____

5. $y = 2x^2 - 16x + 36$ vertex: _____

6. $y = -2x^2 - 16x - 25$ vertex: _____

7. $y = x^2 - 4x - 3$ vertex: _____

The vertex from standard form

8. $y = 3x^2 - 24x + 46$ vertex: _____

9. $y = -x^2 - 2x - 5$ vertex: _____

10. $y = -x^2 + 2x - 8$ vertex: _____

11. $y = -2x^2 - 16x - 22$ vertex: _____

12. $y = -2x^2 + 20x - 45$ vertex: _____

13. $y = -2x^2 + 12x - 6$ vertex: _____

14. $y = 2x^2 - 24x + 68$ vertex: _____