

Math 10D - Complete the square. State the optimal value.

1. $y = 3x^2 + 24x - 10$

2. $y = -10x^2 + 180x - 807$

3. $y = \frac{1}{2}x^2 - 2x - 3$

4. $y = \frac{2}{3}x^2 + 16x$

5. $y = -9x^2 - 54x - 22$

6. $y = -2.5x^2 - 35x - 100$

7. $y=4x^2+12x-7$

8. $y=-3x^2+15x-8$

9. $y=6x^2+12x+5$

10. $y=5x^2-13x+8$

11. $y=-1.2x^2-4.8x+3.1$

12. $y=3.62x^2+9.24x+7.46$