Section 10.2 Worksheet

Name: _____

Find the product.

1. $x^2(6x^2 - 3x - 1)$

2. $-5a^3(4a^4 - 3a + 1)$

3. $4d^2(-2d^3 + 5d^2 - 6d + 2)$

4. $(2y + 3)(y - 5)$

5. $(6a - 3)(4a - 1)$

6. $(-p + 2)(3p^2 + 1)$

7. $(n + 1)(n^2 + 4n + 5)$

8. $(w - 3)(w^2 + 8w + 1)$

Simplify the expession

10. $(x + 2)(x + 5) - x(4x - 1)$

11. $(m + 7)(m - 3) + (m - 4)(m + 5)$

REVIEW:

Find the sum or difference.

12. $(9p^2 - 6p^3 + 3 - 11p) + (7p^3 - 3p^2 + 4)$

13. $(9b^3 - 13b^2 + b) - (-13b^2 - 5b + 14)$

Graph the function by completing the table. Identify the graph's axis of symmetry (AOS), vertex, and tell whether the graph opens up or down.

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

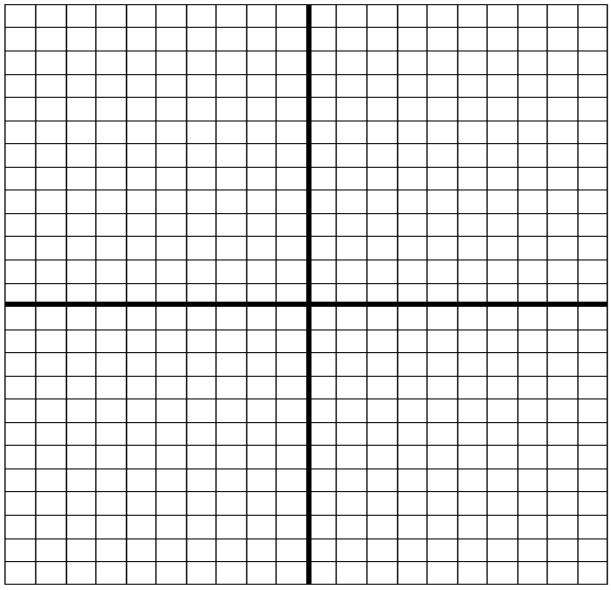
AOS: _____

vertex: _____

y-int: _____

opens: _____

x					
y					



Solve the quadratic equations using the quadratic formula. Write your answer in simplest radical form.

15. $-2x^2 + 7x - 6 = 0$