

**Algebra 2 - Study Guide 1 - Baker
Answer Section**

1. Quadratic (degree 2)
2. Linear (degree 1)
3. A, B, C, E
4. B, C, D
5. A) No, because $n(2n - 1) = 2n^2 - n$
B) Yes, because when you distribute the negative and combine like terms, the p^2 cancel out
6. $9u^3 + 7u^2 - 5u + 15$
7. $2x^4 + 2x + 10$
8. $10u^3 + 4u^2 - 2u + 10$
9. $14x + 2$
10. $35a^9 - 14a^3b^3$
11. $8x^2 + 26x + 15$
12. $9x^2 - 36x + 35$
13. $8n^3 + 6n^2 - 4n - 20$
14. $8x^3$
15. $8w^6(5w^5 + 2)$
16. $(3x + 1)(2x + 1)$
17. $(3g - 5)(2g + 7)$
18. $(3x - 2)(x + 3)$
19. $(r - 7)(r + 7)$
20. $(2x + 9y)(2x - 9y)$
21. $(x + 1)(3x^2 + 1)$
22. $(2g^2 - 5)(3g + 4)$
23. $y = 3(x + 2)^2 + 2$
24. vertex: $(-2, 5)$;
opens down
25. $(-2, 0)$ and $(6, 0)$
26. $y = -(x - 1)^2 + 4$