

Pre-AP Algebra II
Assignment #1
[Due Thursday 8/22/19]

Name: _____
Period: _____

Directions: Simplify the following expressions.
[Notes Day #2]

1. $a + b + c$

2. $a^2 + 5b + 3a + 7b$

3. $7x - 5y + 3x^2$

4. $7a^2 - 3a^2 + 10a^3 + 2a^3$

5. $7x^4 - x^2 + 3x^4 + 7x + 5 - 4x + 1$

6. $7\phi^3 - 9\phi^2 + 7\phi - 10\phi^3 + 8\phi - 1$

7. $2a \cdot 3a^3 \cdot 4$

8. $3a^2 \cdot 4b \cdot c$

9. $4\lambda \cdot 3\phi^2$

10. $3\phi^3 \cdot 4\phi\lambda^2 \cdot \phi\lambda$

Directions: Evaluate the following expressions.
[Notes Day #2]

11. $2(7) - 5$

12. $2(5) \div 2 + 3$

13. $3(4) - 8 \div 2 + 1$

14. $3(-2) - 4^2 \div 2 + 7$

15. $\sqrt{25}^2 - (-7)(-3) + 6 \div 2$

Directions: Solve the following equations.
[Notes Day #2]

16. $3x + 2 = 2$

17. $9x + 1 = 2x$

18. $2x - 4 = 6x + 12$

19. $7\delta + 6 - 5\delta + 8 = 3\delta - 4 + 2\delta$

20. $x^2 - 2x + 3 = x^2 + x - 5$

21. $-7x + 3 + 2x = -5x + 1$

Directions: Multiply the following polynomials using the distributive property.
[Notes Day #4]

22. $(x + 2)(x + 4)$

23. $(x - 3)(x - 5)$

24. $(x^2 + 3)(x^2 - 4)$

25. $(x^3 + 1)(x^2 + 2x + 1)$

Directions: List all sets of numbers to which each number belongs.

[Notes Day #5]

26. $\frac{3}{3}$

27. $-\sqrt{5}$