

Pre-AP Algebra II

Assignment #2 (Test #1 Review)

[+7 points if completed by Friday 8/23/19]

Name: _____

Period: _____

Directions: Evaluate the following expressions.

[Notes #2]

1. $9 \div -3 + 1 \cdot 2$

2. $3^2 \div 3 + 1(-2)$

3. $3^2 \cdot 4(-3) + 10 \div 2 + 1$

4. $\sqrt{25}^3 - (-2)(-5) + 12 \div 4 - 2^2$

Directions: Solve the following equations.

[Notes #2]

5. $5\theta + 7 = 3\theta - 12$

6. $-\frac{3}{4}\Psi + 5 + 2\Psi - 7 = 3\Psi + 8$

7. $-5\lambda - 8 - 7\lambda + 3\theta = -3\lambda + 8 + 3\theta - 12 + 7\lambda$

8. $5\delta^2 + 7\delta - 5 + 3\delta = 5\delta^2 + 5 - 12\delta - 7$

Directions: Simplify the following expressions.

[Notes #2]

10. $5\varphi^2\theta^3 \cdot 2\varphi\theta^2 \cdot (-2\delta)$

11. $5\varphi^2 - 3\varphi + 12\varphi^2 + 8\varphi - 7 + \delta$

12. $3\Psi^{-2}\delta^{-3} \cdot 4\Psi^5\delta^7 \cdot 2\lambda^3\theta \cdot \theta^2\delta^2$

Directions: Solve the following and identify the property used.

[Notes #3]

13. $8 + (-8) =$

14. $3 \cdot \frac{1}{3} =$

Directions: Multiply the following polynomials.

[Notes #4]

15. $(x^3 + 2)(x^2 - 3)$

16. $(x^2 - 2)(2x^3 + 3x - 1)$