

SYLVAN ALGEBRA 2
FOUNDATION LOCATOR ASSESSMENT

Name _____ Date _____ Score _____

1. Simplify: $(-2x)(5y) + (4x)(3y)$

2. Subtract $4 + 3x - x^2$ from $6x^2 - x - 1$

3. Insert $<$, $>$, or $=$ to make a true statement: $2 - 10 \div 2 + 6$? 3

4. Evaluate $|x^2 - xy + y^2|$ when $x = -2$ and $y = -1$

5. Simplify: $\frac{24x^3y}{18x^2y^2}$

6. Simplify: $\frac{12x^2 - 9x + 15}{3x}$

7. Simplify: $4 - 3[3a - (-2 - 2a)]$

8. Write an inequality whose graph is



9. Factor: $12x^2y^3 - 28xy^2$

10. Simplify: $(7x - 8)(4 - 3x)$

11. Solve: $4x + \frac{3}{7} = \frac{17}{7}$

12. Solve: $7 - 2x < 3x - 2$

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13. Solve: $2x^2 - 7x - 4 = 0$

14. Simplify: $\sqrt{x^4} + \sqrt[3]{x^6} + \sqrt[4]{16}$

15. Find the distance between points $(-4, 3)$ and $(2, -1)$.

16. What is the midpoint of the segment joining $\left(\frac{1}{2}, \frac{-1}{3}\right)$ and $\left(1.9, \frac{1}{6}\right)$

17. Graph: $2x + y = 1$

