

Simplify all answers and show your work!

1. Multiply: $(x - 2)(x^2 + 3x - 5)$

2. Multiply: $(x - 6)^2$

3. Divide. $\frac{14r^4 - 7r^3 + 28r^2}{-7r^3}$

4. Divide. $\frac{x^3 - 9x^2 + 25x - 21}{x - 3}$

5. Plot the following points: (1, 3), (-2, 4), (5, 2) 6. Multiply: $(2x + 5)(3x - 2)$

7. Find the slope of the line through the points (2, -4) and (5, -1).

8. Graph the line $3x + 2y = 6$

9. Add. $(-11z^2 + 3z + 1) + (-7z^2 + 6z - 4)$ 10. Subtract. $(3a^4 - 7a^2 + 5) - (4a^4 + 2a^2 - 9)$

11. Find the equation of the line through the point $(3, -2)$ with a slope $-\frac{5}{3}$.

12. Find the equation of the line through the point $(1, 2)$ parallel to the line $2x + 7y = -5$.

13. Find the slope of the line given by the equation $4x - 5y = 13$.

14. Find the equation of the line through the point $(2, -3)$ and perpendicular to the line $3x + 4y = 7$.

15. Find the equation of the line passing through the points $(2, 4)$ and $(-4, -5)$.