

Geometry/Geometry Honors

Summer Assignment 2022-2023

This assignment should be completed over the summer and turned into your Teacher the First week of School.

ALL WORK MUST BE SHOWN TO RECEIVE CREDIT!

For problems 1-2, combine like terms.

7. $\sqrt{5x-3} + 4 = 0$

1. $5ab - 3ab + ab$

2. $4x^2 + 2x + 6x^2 + 9x + 3$

For 8-9, find the slope.

8. $(-3,6)(5,-4)$

For problems 3-7, solve for x.

3. $2(12b + 7) + 9b + 1 = 180$

9. $(6,-3)(-2,-3)$

4. $3x + 5 = 2x + 8$

10. Find the equation in slope-intercept form for the line that passes through $(-1,2)$ and is parallel to $y = 2x - 3$

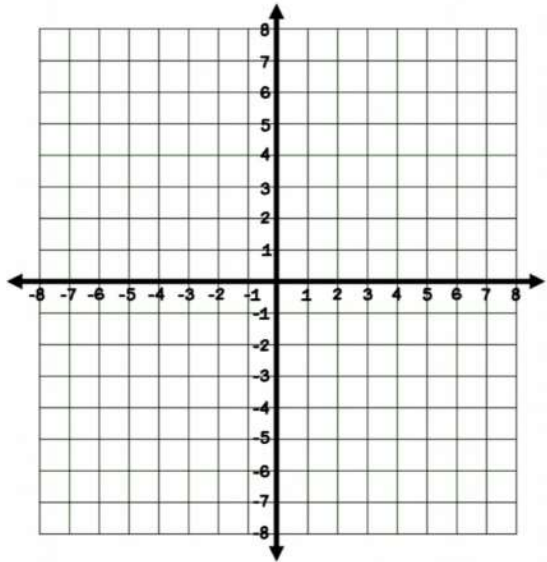
5. $\frac{1}{2}(4x + 8) + 3x = 66$

11. Find the equation in slope-intercept form for the line that passes through $(0,6)$ and is perpendicular to $x - 3y = 5$.

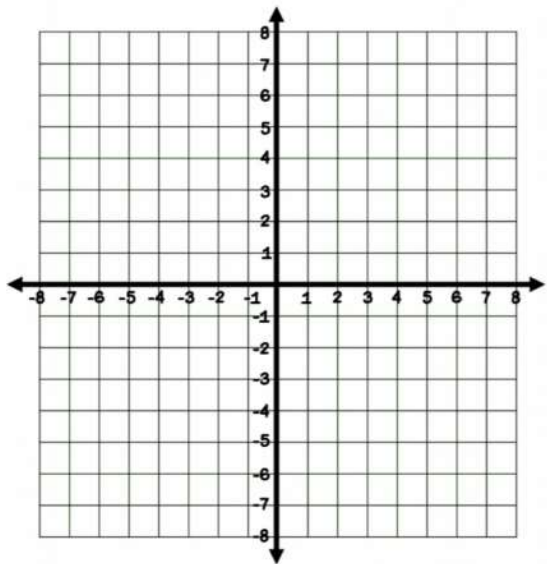
6. $-2y + \frac{3}{2} = 8$

For 12-13, graph the equation on the provided coordinate plane.

12. $y = 2x + 4$



13. $y = -\frac{2}{3}x - 3$



For Problems 14-17, factor.

14. $x^2 - 10x + 9$

15. $x^2 - 36$

16. $2x^2 + 5x + 2$

17. $5x^2y - 15xy - 140y$

18. Solve $2x^2 + 4x - 3 = 0$ by using the quadratic formula.

19. Solve $4x^2 + 8x + 3 = 0$ by completing the square.