

Name _____



2026-2027

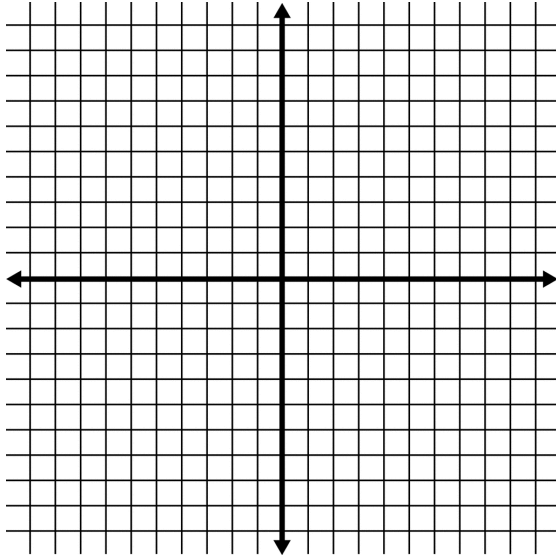
Geometry Summer Math Work

Directions:

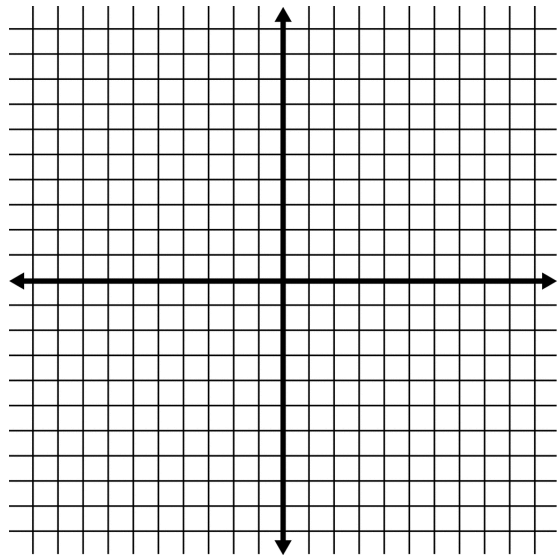
- Complete all pages of the attached packet.
- Show **all** of your work. Try to work without a calculator.
- You can get help from friends, family, or other sources, but do **not** use ChatGPT, PhotoMath, etc. It's important that **you** understand the work because **you** need to understand this math for MCAS.
- Email Nieves at snieves@bostongreenacademy.org if you find something confusing and I will help you find the right direction.

Graph each equation.

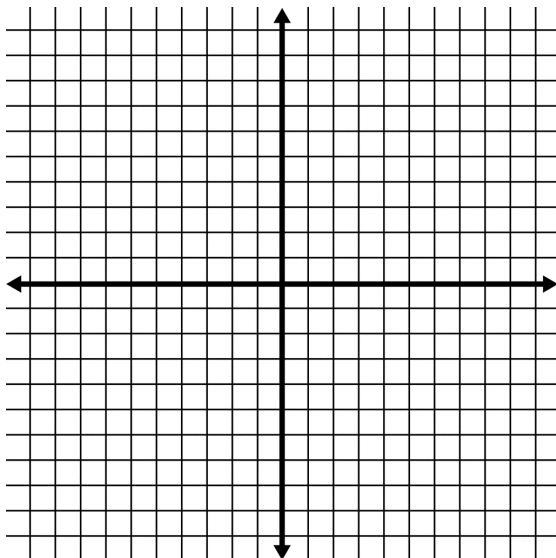
1. $2x + 4y = -3$



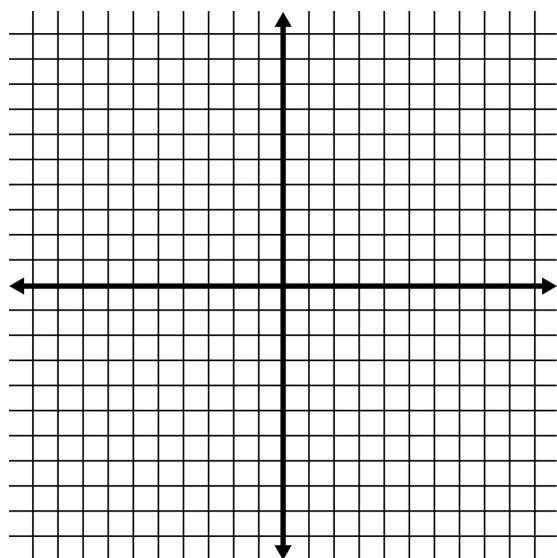
2. $-6y = 8 + 4x$



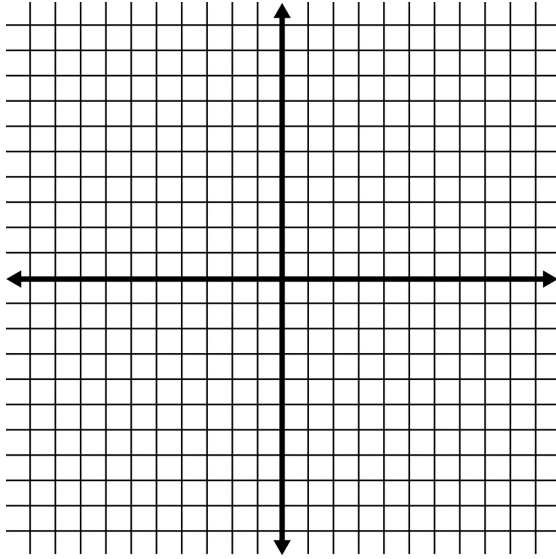
3. $y = 2x - 7$



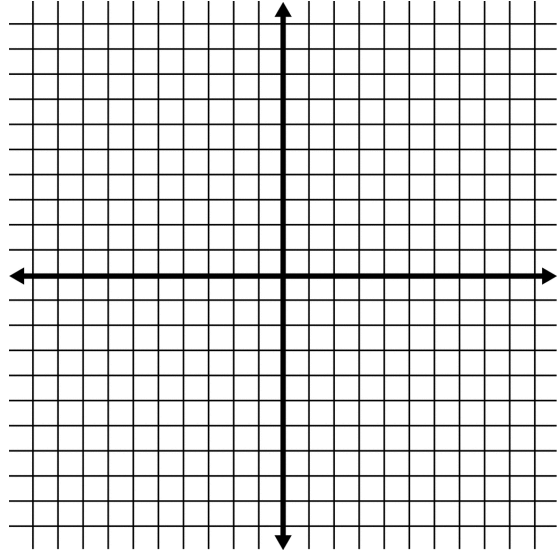
4. $5y = 8$



5. $x - y > 7$



6. $3x - y \geq 3$



Solve the following equations.

7. $24 = 31 - k$

8. $81 = n + 19 + 5$

9. $x + 12 = 4x - 9$

10. $2z - 12 = 24$

11. $3(x - 4) = 15$

12. $3m + 7m - 2 = 12m + 19$

Solve each proportion

$$13. \frac{10}{x} = \frac{2}{12}$$

$$14. \frac{6}{x} = \frac{3}{15}$$

$$15. \frac{15}{p} = \frac{20}{8}$$

$$16. \frac{4}{12} = \frac{v}{3}$$

$$17. \frac{w}{18} = \frac{2}{9}$$

$$18. \frac{280}{b} = \frac{490}{70}$$

Write the slope of the line passing through the two points.

19. $(-1, 7)$ & $(1, 5)$

20. $(2, 2)$ & $(6, 8)$

21. $(-34, -41)$ & $(-26, 42)$

22. $(-7, 8)$ & $(-4, -3)$

Multiply.

23. $(12x)(12x + 11)$

24. $-9x(-3x^2 + 9x + 11)$

25. $(8x + 11)(5x + 11)$

26. $(-14x + 11)(-9x + 19)$

Plot the following points on the coordinate grid.

27. A (0, -8)

28. B (-5, 0)

29. C (3, 10)

30. D (6, -7)

31. E (-1, 9)

32. F (-2, -5)

33. G (4, 1)

