

Summer Homework

Please have this assignment finished when you arrive to school on the first day. I will collect it and return it the following day to review. We will have a quiz over this material on the third day. Please show your work.

Evaluate each expression if $r = 3$, $q = 1$, $w = -2$.

1. $4r + q$
2. $rw - 6$
3. $\frac{r+3q}{4r}$
4. $\frac{5w}{3r+q}$
5. $|2 - r| + 17$

Solve each equation.

6. $k + 3 = 14$
7. $a - 7 = 9$
8. $5c = 20$
9. $w + 2 = -11$
10. $6t - 18 = 30$
11. $4x + 7 = -1$
12. $\frac{r}{4} = -8$
13. $\frac{3}{5}b = -2$
14. $-\frac{w}{2} = -9$
15. $3y - 15 = y + 1$
16. $27 - 6d = 7 + 4d$
17. $2(m - 16) = 44$

Solve each inequality.

18. $y - 13 < 2$
19. $\frac{n}{4} > -6$
20. $-2w \leq 24$
21. $-\frac{n}{7} \geq 3$

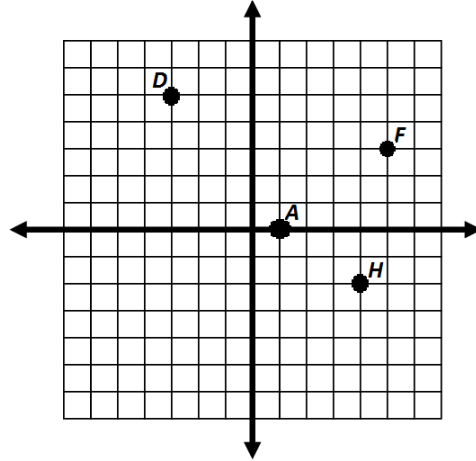
Write the ordered pair for each point shown.

22. F

23. H

24. A

25. D



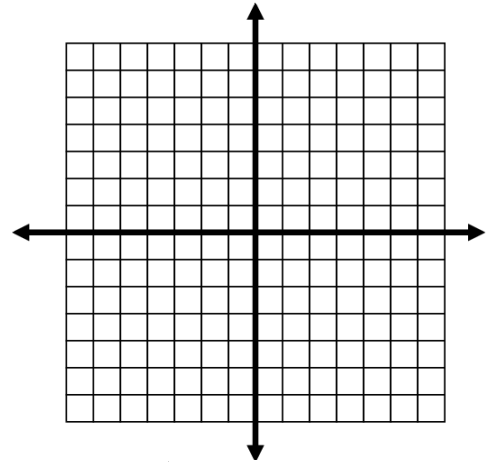
Graph and label each point on the coordinate plane.

26. $B (4,1)$

27. $G (0,-3)$

28. $R (-2,-4)$

29. $P (-3,3)$



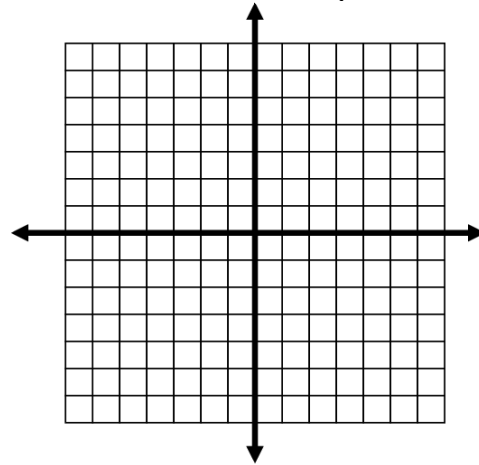
Graph and label each line on the coordinate plane.

30. $y = 2x - 1$, Line A

31. $y = -\frac{3}{4}x + 2$, Line B

32. $y = x$, Line C

33. $y = -6$, Line D



Solve each system of equations.

34. $y = 2x$

$y = -x + 6$

35. $\frac{1}{3}x - 3y = -4$

$x - 9y = -12$

Simplify.

36. $\sqrt{18}$

37. $\sqrt{24x^2y^3}$