

Graph each inequality.

Graph each equation.

Simplify each expression. Remember, no negative exponents in final answers!

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Write an equation that is perpendicular to the given line and passes through the given point.

Write an equation that is parallel to the given line and passes through the given point.

Write an equation in slope-intercept form of the line that passes through the given points.

Find the  $x$ - and  $y$ -intercepts of the equation.

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Solve the following word problems.

Solve each equation or inequality.

Simplify each expression.  $-430$

Simplify each expression.  $4$

Evaluate each expression.

Do not write on this paper. Do your work in your spiral. Return this worksheet to your teacher.

T-3 Review D Worksheet

For the following groups of numbers, calculate the mean, median and mode for each.

1. 18, 21, 17, 21, 24, 16, 29, 18      Mean  $20.9$  Median  $19.5$  Mode  $18, 24$

2. 78, 87, 48, 66, 76, 84, 98      Mean  $87$  Median  $75$  Mode  $75$

3. 56, 47, 38, 66, 50, 64, 44, 63, 39      Mean  $52.4$  Median  $55$  Mode  $\emptyset$

4. 38, 39, 44, 47, 55, 56, 63, 64, 66      Mean  $55$  Median  $55$  Mode  $39$

5. Cassandras' Candles sold the following number of candles over the last 7 days: 25, 48, 25, 33, 57, 50, x. The average number of candles sold each day was 39. How many candles were sold on the last day?

6. Brian was shopping for DVD players. He decided he wanted to purchase a DVD player that was in the middle of the price ranges. The prices he was quoted include the following: \$59.99, \$79.99, \$84.99, \$109.99, \$35.99. Which DVD player did Brian select?

7. Chad recently launched a new website. In the past six days, he has recorded the following number of daily hits: 37, 29, 37, 56, 45, 38. He is hoping at weeks end to have an average number of 40 hits per day. To achieve this, how many hits must he have on the final day of the week?

$X = 38 \text{ hits}$

$242 + X = 280$

$242 + X = 40$

$X = 38$

8. Simplify each expression.  $4$

9. Simplify each expression.  $4\sqrt{5}$

10. Simplify each expression.  $3\sqrt{11}$

11. Simplify each expression.  $\frac{3}{2}\sqrt{2}$

12. Simplify each expression.  $15$

13. Simplify each expression.  $4$

14. Simplify each expression.  $4$

15. Simplify each expression.  $2$

16. Simplify each expression.  $2$

17. Simplify each expression.  $43$

18. Simplify each expression.  $48$

19. Simplify each expression.  $43.2$

20. Simplify each expression.  $17$

21. Simplify each expression.  $5$

22. Simplify each expression.  $5$

23. Simplify each expression.  $5$

24. Simplify each expression.  $5$

25. Simplify each expression.  $14$

26. Simplify each expression.  $10$

27. Simplify each expression.  $3$

28. Simplify each expression.  $3$

29. Simplify each expression.  $3$

30. Simplify each expression.  $18$

31. Simplify each expression.  $3$

32. Simplify each expression.  $13$

33. Simplify each expression.  $3$

34. Simplify each expression.  $10$

35. Simplify each expression.  $36$

36. Simplify each expression.  $36$

37. Simplify each expression.  $8$

38. Simplify each expression.  $4$

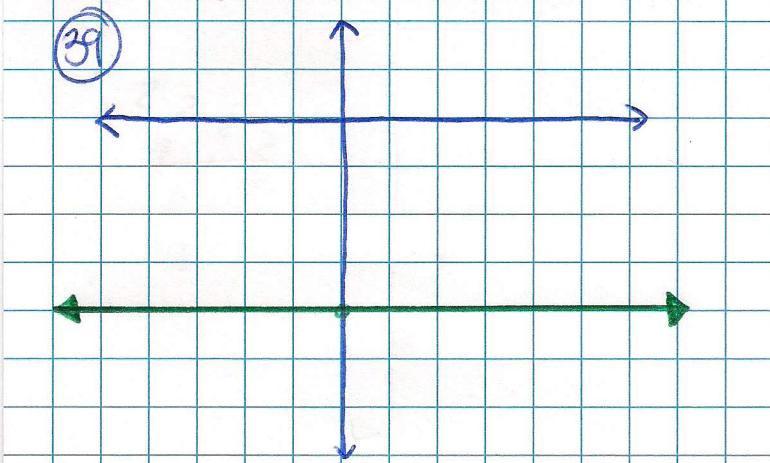
39. Simplify each expression.  $4$

40. Simplify each expression.  $2$

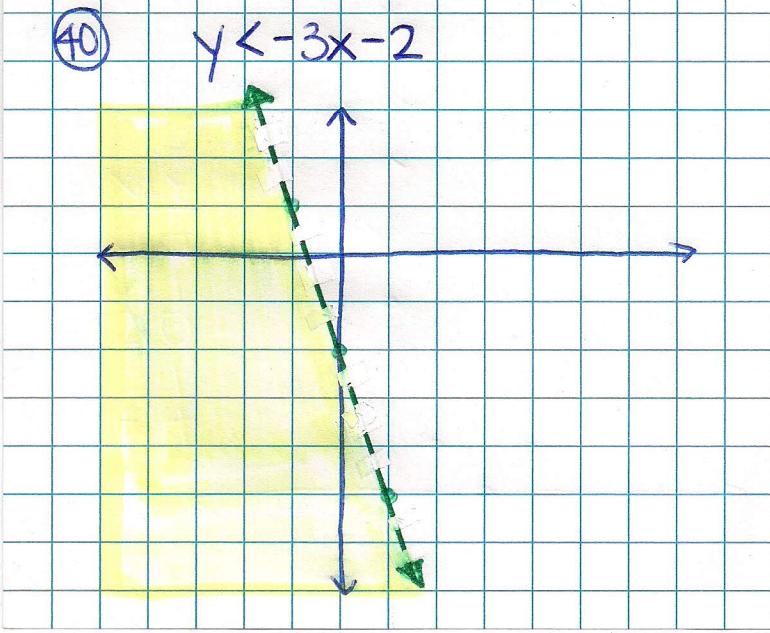
41. Simplify each expression.  $2$

42. Simplify each expression.  $3$

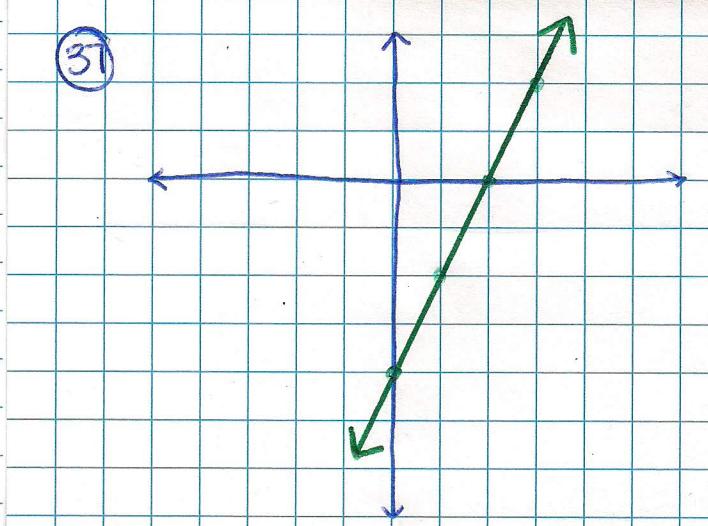
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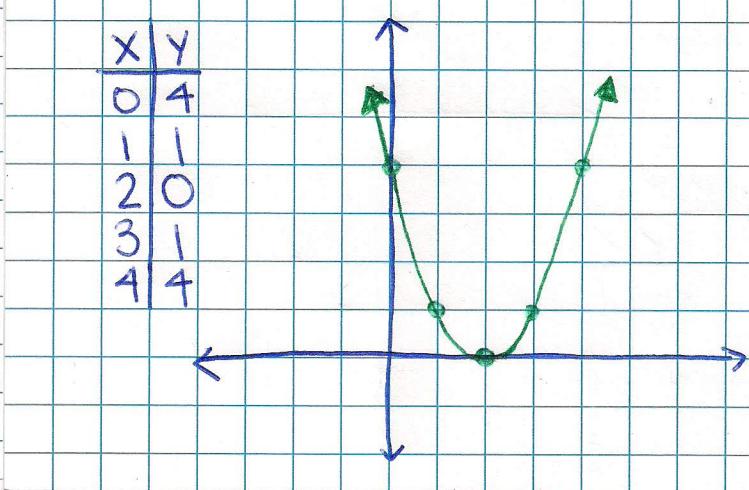
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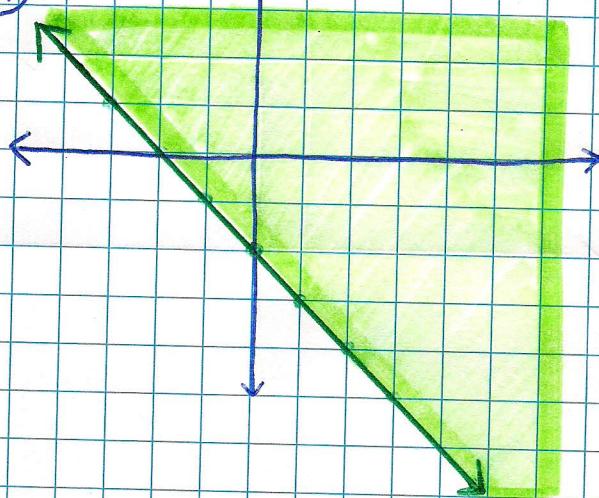
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(38) vertex = (2, 0)



41



42

