

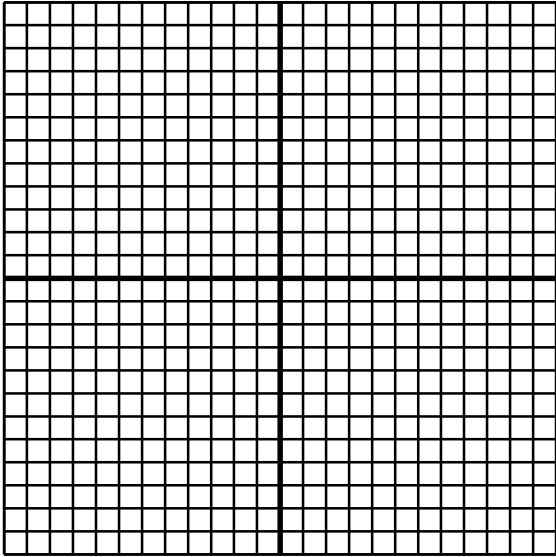
1st Semester Review Worksheet C

Name: _____

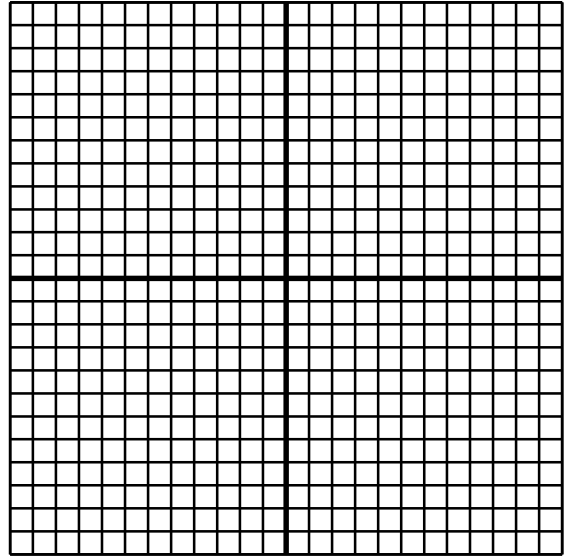
Period: _____

Directions: Graph each absolute value function.

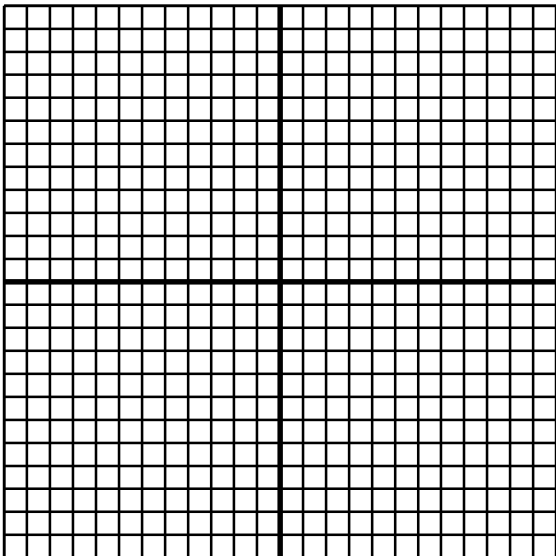
1. $y = |x + 4| - 5$



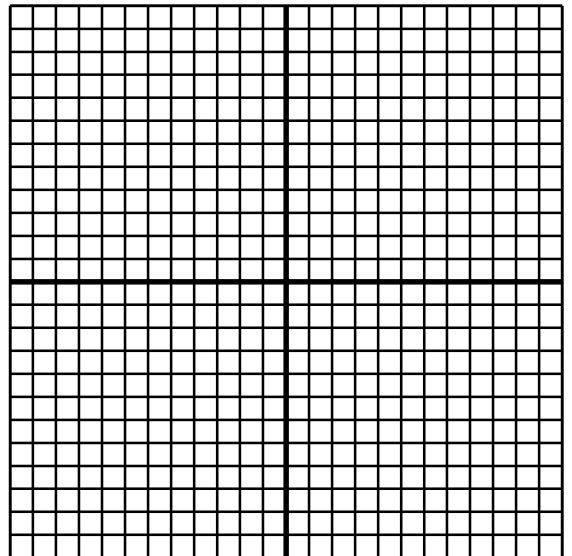
2. $y = |x - 3| + 2$



3. $y = 2|x - 6| - 4$



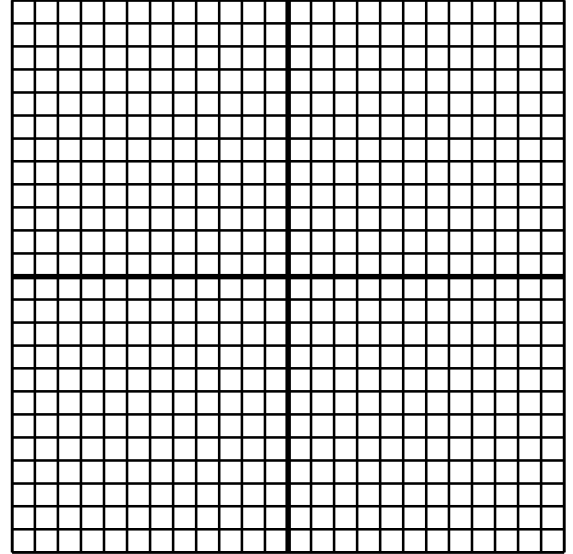
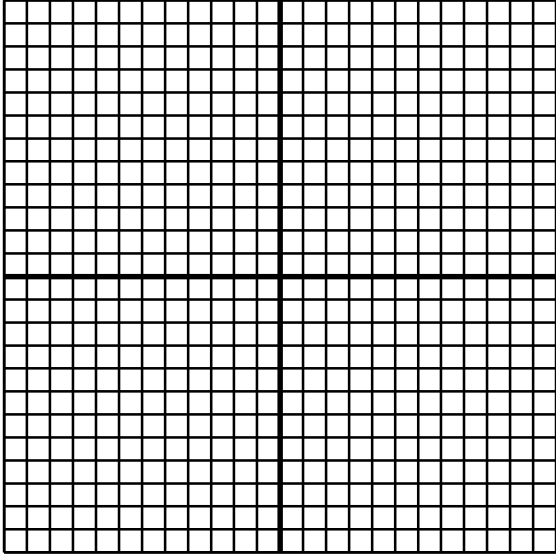
4. $y = 3|x + 1| - 8$



Directions: Graph each system of equations to find the intersection.

5. $y - 5 = \frac{1}{2}(x - 6)$ and $y = -\frac{2}{3}x - 12$

6. $4x + 5y = 12$ and $y + 10 = \frac{2}{3}(x + 1)$



Directions: Find the intersection of each system of equations. **Show all work.**

7. $y = -2x + 6$
 $4x + 3y = 26$

8. $3x + 7y = -59$
 $9x - 4y = -52$

9. $9x - 6y = 36$
 $y = \frac{3}{2}x - 6$

10. $5x - 7y = -83$
 $5x + 2y = -2$

11. $y = -\frac{3}{4}x + 3$
 $y = -\frac{1}{2}x - 2$

12. $6x - y = 49$
 $3x + 8y = 67$

13. $4x + 8y = 24$
 $y = \frac{1}{2}x - 2$

14. $y = \frac{3}{4}x + 7$
 $x - 3y = -31$

Directions: Solve each word problem. Don't forget to answer the question with a complete sentence.

15. John is a crab fisherman. One day he caught and sold 13 Dungeness crabs and 15 Red Rock crabs for \$485. The next day he caught and sold 10 Dungeness crabs and 10 Red Rock crabs for \$350. What were the prices for each crab?

16. Victoria is the head chef at local seafood restaurant. One day, she had to buy 30 pounds of salmon and 40 pounds of halibut for \$1,380. The next week, she bought 35 pounds of salmon and 20 pounds of halibut for \$1,010. How much did Victoria pay for a pound of salmon and a pound of halibut?
17. Tom is a waiter at Victoria's restaurant. On Friday, he sold 8 salmon specials and 10 halibut specials for \$400. On Saturday, he sold \$540, by selling 15 salmon specials and 10 halibut specials. How much does each special cost at Victoria's restaurant?
18. Cynthia is a waitress also at Victoria's restaurant. On Friday, she sold 4 more salmon specials than halibut specials. Her sales on the 2 specials were \$608. How many of each special did she sell? **(You must do #17 before doing #18 and use the answers from #18.)**