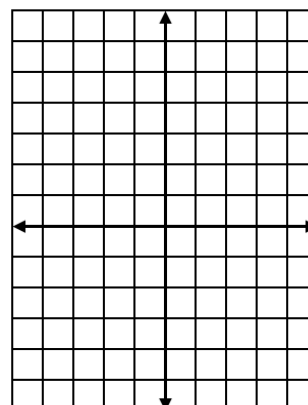
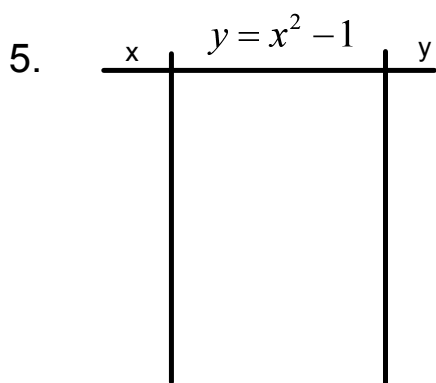
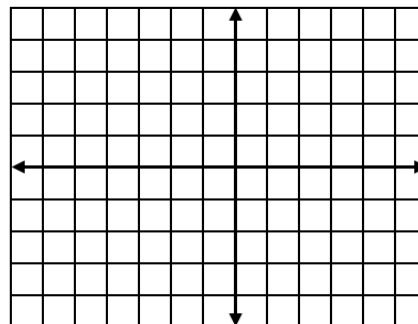
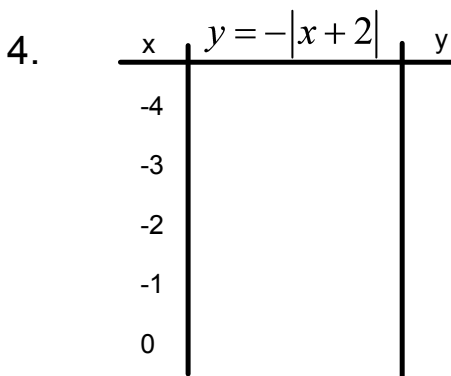


Alg 1 Friday Week 9 Warm-Up

Write an equation that represents each sentence.

1. y is 5 less than the product of 4 and x .
2. 7 less than three fifths of b is a .
3. A team of divers assembles at an elevation of -10 ft relative to the surface of the water. Then the team dives at a rate of -50 ft/min. Write a rule that represents the team's depth d as a function of t . What is the team's depth after 3 minutes?

Complete the charts and SHOW YOUR WORK. Then graph the results.



6. Which word goes with each problem? DO NOT SOLVE, just decide the word:

a) $|3x + 2| < 3$

b) $|2x - 1| = 8$

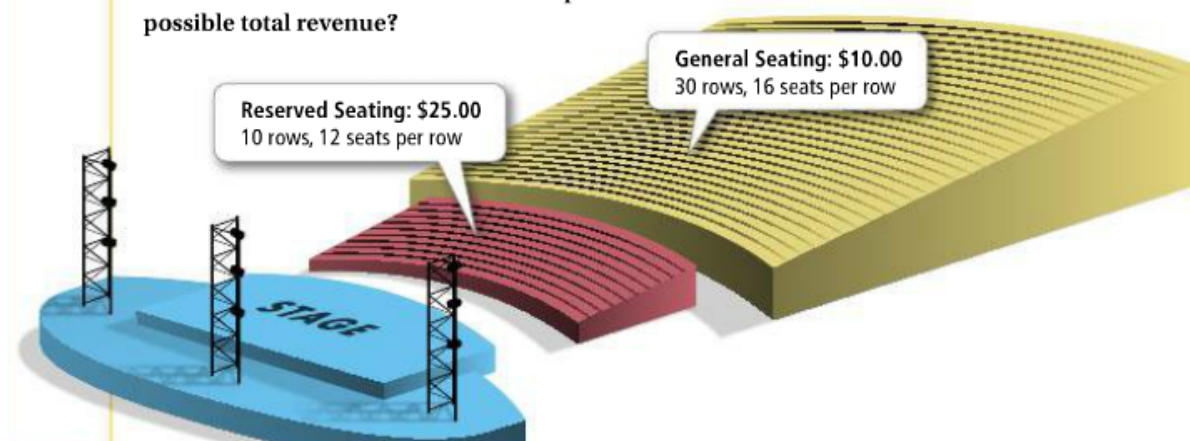
c) $-3|x + 2| \leq -9$
careful!

4-5 Writing a Function Rule



Problem 2 Writing and Evaluating a Function Rule

Concert Revenue A concert seating plan is shown below. Reserved seating is sold out. Total revenue from ticket sales will depend on the number of general-seating tickets sold. Write a function rule to represent this situation. What is the maximum possible total revenue?



Got It? 2. a. A kennel charges \$15 per day to board dogs. Upon arrival, each dog must have a flea bath that costs \$12. Write a function rule for the total cost for n days of boarding plus a bath. How much does a 10-day stay cost?

more
↓

b. **Reasoning** Does a 5-day stay cost half as much as a 10-day stay? Explain.



Problem 3 Writing a Nonlinear Function Rule

Geometry Write a function rule for the area of a rectangle whose length is 5 ft more than its width. What is the area of the rectangle when its width is 9 ft?

HW p 265: 9, 11, 13, 16

+ Graphing Handout

Write a function rule that represents each sentence.


9. C is 8 more than half of n .

11. 2.5 more than the quotient of h and 3 is w .

Write a function rule that represents each situation.

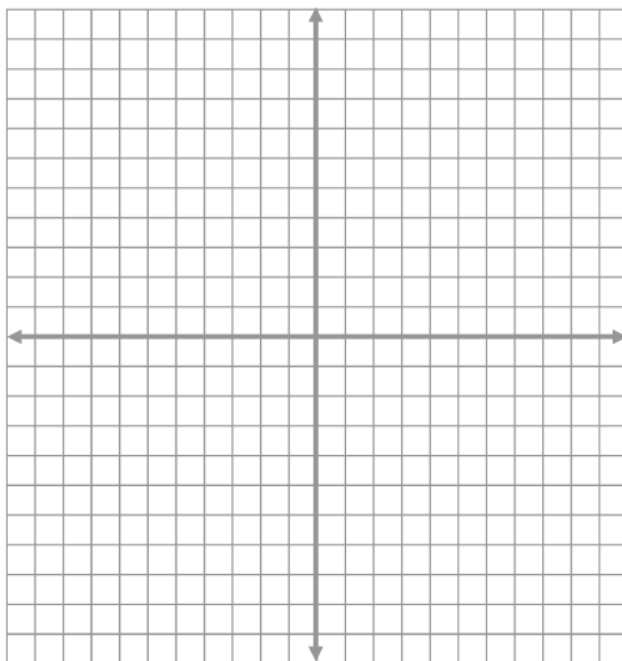
13. **Pizza** The price p of a pizza is \$6.95 plus \$.95 for each topping t on the pizza.

16. **Aviation** A helicopter hovers 40 ft above the ground. Then the helicopter climbs at a rate of 21 ft/s. Write a rule that represents the helicopter's height h above the ground as a function of time t . What is the helicopter's height after 45 s?

 need help? see problem 2 from notes

HW: Fri wk 9

x	$y = x^2 - 3$	y



x	$y = - 2x - 1 $	y

