



H.O.T. Problems Higher Order Thinking

4. **CCSS Reason Abstractly** What would the graph of $y = x$ look like? Name three ordered pairs that lie on the line. straight line; Sample answer: (0, 0), (1, 1), and (2, 2)
5. **CCSS Persevere with Problems** Boards 4 U charges \$10 per hour to rent a snowboard while Slopes charges \$12 per hour. Will the cost to rent snowboards at each place ever be the same for the same number of hours after zero hours? If so, for what number of hours? no; The graphs of the lines will never meet other than at zero hours.
6. **CCSS Model with Mathematics** Write a real-world problem in which you could graph a function. Sample answer: A cable company charges a \$50 start up fee and \$60 a month.
7. **CCSS Reason Abstractly** A movie rental club charges a one-time fee of \$25 to join and \$2 for every movie rented. Write an equation that represents the cost of joining the club and renting any number of movies. $c = 25 + 2m$