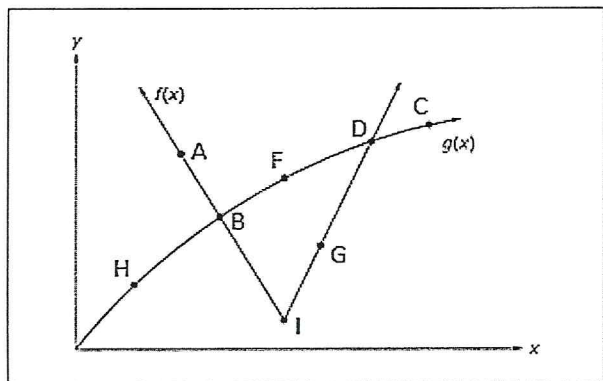5) Maria is hosting a party. She places an order at Pizza Hut for 5 pizzas and 4 breadsticks for a total of $51. Halfway through the party, she realizes that she will need one more pizza and 2 more order of breadsticks. This time she was given a total of $15. How much does a pizza cost? How much does a breadstick cost?

6) **NC** Janelle is selling cookies (x) and brownies (y) at a bake sale. A cookie costs $1.50 and a brownie costs $2.00. She needs to make at least $50 to make a profit but she only has 20 cookies to sell. Write a system of linear inequalities to model this problem. (You don't have to solve)

7) The graphs of $y = f(x)$ and $y = g(x)$ are shown. **A.REI.D.11**

Solutions for...	List **all** the points (2 pts each)
$y = f(x)$	
$y = g(x)$	
$f(x) = g(x)$	

8) Find where the system intersects: $f(x) = x^2 + 5x - 10$; $g(x) = x + 2$