

5. Solve for the point of intersection for each system of equations.

a)
$$\begin{array}{c} 2x + y = 20 \\ 6x - 5y = 12 \end{array}$$
 b) $\begin{array}{c} -3x - 3y = 3 \\ y = -5x - 17 \end{array}$

6. Use the tangent ratio to find x. Show all steps leading to your answer.



c. Is this game fair? Use expected value in your answer.

9. Carol has three coins. Unfortunately they are unfair coins. The probability of tossing a head for each coin is $\frac{1}{5}$.	
Suppose these three unfair coins are flipped.	
a) Make an organized list or a tree diagram showing all the	e possible combinations of heads and tails.
b) What is the probability that at least one coin comes up t	ails?
c) What is the probability that you get exactly 2 heads?	
10. If you spin 1 time, you will win or lose the dollar amount shown.	
a) Find P(\$11).	
b) Find P(-\$5)	
	-5
c) How much money would you expect to collect in 50 spins?	
d) Use expected value to show that this is a fair game	
e) ese expected value to show that this is a full guille.	