Solve the equation.

1. 
2. 
3. 
4. 
5. 
6. 

Solve the inequality. Write your answer in interval notation.

1. 
2. 
3. 
4. 

Solve the problem.

1. The manager of a coffee shop has one type of coffee the sells for $5 per pound and another that sell for $14 per pound. The manager wishes to mix 30 pounds of the $14 coffee to get a mixture that will sell for $10 a pound. How many pounds of the $5 coffee should be used?
2. Two friends decide to meet in Houston for the Texans game next weekend. Deanna travels 231 miles in the same time that John travels 213 miles. Deanna's trip uses more interstate highways and she can average 6 mph more than John. What is Deanna's average speed?
3. Billy Bob can paint four rooms in my house in 20 hours. It takes his younger brother, Joe Bob, 60 hours to do the same job. How long would it the two brothers together to paint four rooms assuming no gain or loss in efficiency?
4. Suppose that f(x) is increasing on the interval (4,6). Over what interval is y=f(x+2) increasing?
5. Find the domain of .

If and 

1. Evaluate .
2. Evaluate .
3. Evaulate .

Graph the FUNction

1. 
2. 
3. 
4. 
5. given a graph of