

Review for Midterm

Solve and graph

1. $-2|p + 4| + 6 \geq -14$

2. $-9 < -2s - 1 \leq -7$

3. The sum of four consecutive even integers is 308. Define your variables and write and solve an equation to find the four integers

4. An airplane flies from New York to Atlanta at an average rate of 320 miles per hour. The airplane then returns at an average rate of 280 miles per hour. The total travel time is 6 hours. Algebraically find the flying time from New York to Atlanta.

5. Two boats leave a ramp. One is traveling North and the other is traveling South. The second boat is 10 miles per hour faster than the first. After 3 hours they are 150 miles apart. Find the speeds of the boats.

6. Find the range of the function $f(x) = 4x + 1$ for the domains $\{-1, 0, 8\}$