

Math 099: Quiz # 2

1. Use the quadratic formula to solve
 $6x^2 + 7x - 5 = 0$
2. Solve for x .
 $3x/(x-4) = 2x/(x-3) + 6/(x^2 - 7x + 12)$
3. Set up and solve. A boat travels 48 miles up a river in the same amount of time it takes to travel 72 miles downstream. If the current is 3 mph, what is the speed of the boat in still water?
4. An airplane flies 1380 miles in 3 hours. How far will it fly in 5 hours?
5. Solve the inequality and write the solution in interval notation.
 $1/4t - 1/3(2t - 5) < 0$