System of Linear Equations

Problem 1. The sum of two numbers is 25. Their difference is 15. What are the two numbers?

Problem 2. Sally has 20 coins in her piggy bank, all dimes and quarters. The total amount of money is $3.05. How many of each coin does she have?

Problem 3. A light plane flew from its home base to an airport 255 miles away. With a head wind, the trip took 1.7 hours. The return trip with a tail wind took 1.5 hours. Find the average airspeed of the plane and the average windspeed.

Problem 4. The sum of ages of a boy and his dad is 30 years. In five years, the dad will be exactly three times older than his son. How old was the dad when his son was born?

Problem 5. A group of people bought movie tickets at the AMC Century City. They bought a total of 7 tickets, some adult and some kid tickets. They spent a total of $72. If adult tickets cost $12 and kid tickets cost $9, how much of each were purchased?

Problem 6. A Honda dealership sells both motorcycles and cars. There are a total of 200 vehicles on the dealership’s lot. The detailer cleaned all the wheels of all the vehicles, which totaled 698 wheels. How many motorcycles are there on the lot?