Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Use the addition method to solve the system  $\begin{cases} 2x - 3y = 11 \\ 7x - 4y = 6 \end{cases}$ .

2. Andy, Bob and Chris pulled their savings together and invested in a scheme whereby Bob's dad would play poker with his friends and distribute the earnings to the three kids depending on how much he won on behalf of each kid. The total amount they invested in the poker game was \$ 80 and Chris invested four times as much as did Andy. It turned out that the scheme enabled Andy and Chris to earn 10% on their investment, whereas Bob earned 20% on his investment. If the total earnings were \$ 10, how much did each of the kids contribute to the fund?