Name: _____

MATH 100
Fall 2021
HW 11: Due 11/08

"Whoever said money can't buy happiness simply didn't know where to go shopping."

– Bo Derek

Problem 1. (10pt) Solve $x^2 + 2x - 3 = 0$ by factoring. Show all your work.

Problem 2. (10pt) Solve $x^2 - 9x + 20 = 0$ by factoring. Show all your work.

Problem 3. (10pt) Solve $x^2 = 3x + 18$ by factoring. Show all your work.

Problem 4. (10pt) Solve $5x = 14 - x^2$ by factoring. Show all your work.

Problem 5. (10pt) Solve $x^2 = 6x - 9$ by factoring. Show all your work.

Problem 6. (10pt) Solve $x^2 - 7x - 18 = 0$ using the quadratic formula. Show all your work.

Problem 7. (10pt) Solve $x^2 + 7x + 6 = 0$ using the quadratic formula. Show all your work.

Problem 8. (10pt) Solve $2x^2 - 5x - 12 = 0$ using the quadratic formula. Show all your work.

Problem 9. (10pt) Solve $6x^2 + x = 2$ using the quadratic formula. Show all your work.

Problem 10. (10pt) Solve $6x^2 = 2 - 4x$ using the quadratic formula. Show all your work.