

**ALGEBRA 2**  
**PROBLEM SET #14**

QUIZ DATE: THURSDAY, OCTOBER 26, 2023

**Question 1.** Factor the expressions

(1)  $x^2 + 3x + 2$

(2)  $x^2 + 9x + 20$

(3)  $x^2 - 100$

(4)  $-x^2 + 64$

(5)  $x^2 - 4x - 60$

(6)  $x^2 + 5x + 4$

(7)  $x^2 - x - 6$

(8)  $6x^2 + 9x$

(9)  $x^2 + x - 90$

(10)  $4x^2 + 20x - 56$

(11)  $2x^2 + 11x + 12$

(12)  $2x^2 - 7x + 6$

(13)  $x^2 - 16$

(14)  $x^4 - x^2$

(15)  $2x^3 - 7x^2 + 6x$

**Question 2.** Find the equation of the quadratic  $f(x) = ax^2 + bx + c$  from the graph below:

