

## Section 2.5 – Factoring Quadratic Polynomials

### Problem Set 3

**Factor the following polynomials.**

- |                         |                          |                          |                          |
|-------------------------|--------------------------|--------------------------|--------------------------|
| 1. $w^2 - 2w$           | 2. $-x^2 + 5x - 7$       | 3. $72a^2 + 240a + 72$   | 4. $-11a^2 - 6a - 1$     |
| 5. $-35a^2 - 26a + 264$ | 6. $w^2 + 18w + 80$      | 7. $y^2 - 63 + 2y$       | 8. $a^2 + 5a - 36$       |
| 9. $x^2 - 7x - 8$       | 10. $a^2 - 64$           | 11. $s^2 + 8s + 7$       | 12. $-9y^2 + 10y - 6$    |
| 13. $x^2 + 11x + 30$    | 14. $-12y^2 + 74y + 380$ | 15. $x^2 + 14x + 24$     | 16. $s^2 + 3s$           |
| 17. $w^2 - 9w + 20$     | 18. $s^2 - 5s - 6$       | 19. $-15a^2 + 79a + 140$ | 20. $12s^2 - 149s + 385$ |