Math 2 Unit 1

HW 1-1 **Factor each expression completely.**

1. $4d^4 - 2d^{10} + 12d^5$
2. $8x^6 + 2x^5 - 10x^9$
3. $24a^2b^5 - 48a^3b^7$
4. $2x^2 + 4xy - 6x - 12y$
5. $2ah + h + 2ab + b$
6. $X^2 - 25$
7. $2a^2 + 4a + 3ab + 6b$
8. $25d^3 - 100d^2 - d + 4$
9. $y^3 - 7y^2 + 4y - 28$
10. $9g^2 - 25$
11. $X^4 - 16$
12. $3x^2 - 75$

HW 1-2 **Factor each expression completely.**

1. $x^2 - 18x + 80$
2. $5x^2y - x^2 + 5y - 1$
3. $3y^2 - 15y + 18$
4. $a^3 - a^2b + ab^2 - b^3$
5. $x^4 - 15x^3 + 56x^2$
6. $k^2 - 8k + 16$
7. $2z^2 - 12z + 18$
8. $c^4 + c^3 - 12c - 12$
9. $25y^2 - 100$

HW 1-4 **Solve each equation by factoring.**

1. $x^2 - 4x - 12 = 0$
3. $n^2 + 25 = 10n$
5. $7x^2 = 4x$
7. $5w^2 - 35w + 60 = 0$
9. $15v^2 + 19v + 6 = 0$
11. $36k^2 = 25$
13. $6e^3 = 5e^2 + 6e$

HW1-5 **Solve each equation by factoring.**

2. $y^2 - 16y + 64 = 0$
4. $9z = 10z^2$
6. $c^2 = 2c + 99$
8. $3d^2 + 24d + 45 = 0$
10. $4j^2 + 6 = 11j$
12. $12m^3 - 8m^2 = 15m$
14. $9 = 64p^2$