Assignment 8

Factor each of the quadratic expressions

1. $2x^2 + 9x - 18$

2. $5x^2 + 9x - 2$

3. $x^2 + 10x + 24$

4. $x^2 - 49$

5. $2x^2 + 21x + 40$

6. $9x^2 - 21x + 10$

7. $25x^2 - 30x + 9$

8. $9x^2 - 49$

Name _____

Factor twice, first the GCF and then factor again.

1. $3x^3 - 75x$

2. $2x^3 + 16x^2 + 30x$

3. $3x^3 + 12x^2 + 12x$

4. $4x^3 - 4x^2 - 24x$

Review
Use the exponent rules.

1. $\left(2x^2y\right)^4$

2. $\left(3a^2b^3z^5\right)^3$

3. $(2ab)\left(-3a^2b\right)\left(-5b^3\right)$

4. $\left(2x^2y\right)^3\left(-xy^3\right)^2\left(-xy^2\right)$

Multiply, foil or expand.

5. $(x-3)(3x^2-2x+5)$

6. $(x+3)(2x-5)$

7. $(x-6)^2$

8. $(3x-1)(5x+1)$

9. $(6x+5)^2$