Summary of Factoring Techniques

1. Factor completely.
(similar to p.414 #38)

$$3x^3 - 75x - 5x^2 + 125$$

2. Factor completely.
(similar to p.414 #44)

$$x^2 - 15xy + 54y^2$$

3. Factor completely.
(similar to p.414 #46)

$$80x^2 y^2 - 2xy - 1$$

4. Factor completely.
(similar to p.414 #52)

$$16x^2 + 68x + 42$$

5. Factor completely.
(similar to p.414 #56)

$$2x^5 - 162x$$

6. Factor completely.
(similar to p.414 #58)

$$14p^2 - 15q^2 + 29pq$$

7. Factor completely.
(similar to p.414 #68)

$$x^2 y^2 + 18xy + 80$$

8. Factor completely.
(similar to p.414 #74)

$$19n - 21 + 12n^2$$

9. Factor completely.
(similar to p.414 #80)

$$-100x - 5x^3 - 45x^2$$