

## Factoring Special Products

1. Factor each perfect square trinomial completely.  
(similar to p.409 #30)

$$m^2 + 14m + 49$$

2. Factor each difference of two squares completely  
(similar to p.409 #40)

$$49m^2 - 9n^2$$

3. Factor each difference of two squares completely  
(similar to p.409 #44)

$$4s^{10} - 25t^8$$

4. Factor each difference of two squares completely  
(similar to p.409 #46)

$$x^4 - 81$$

5. Factor each sum or difference of two cubes completely  
(similar to p.409 #50)

$$27v^3 + 8$$

6. Factor each sum or difference of two cubes completely (similar to p.409 #52)

$$27x^3 - 64y^3$$

7. Factor each sum or difference of two cubes completely (similar to p.409 #58)

$$48x^3 + 3y^6$$