Multiplying Polynomials - Key

In problems 1-3, find the product

1. $-8x^4y^6$	2. $-9x^3 + 27x^2 - 45x$
3. $8x^4y^2 - 2x^2y^3 + 4xy^6$	

In problems 4-7, find the product of the two binomials

4. $3x^2 - 22x + 7$	5. $32x^2 - 16x - 6$
6. $3x^2 + 2x - 5$	7. $3x^4 - 11x^2 + 10$

In problems 8-11, find the product of the polynomials

8. $4x^3 + 7x^2 - 4x - 4$	9. $30x^3 - 213x^2 + 21x$
10. $24x^3 + 2x^2 + 6x - 2$	11. $x^4 + x^3 - 18x^2 = 25x - 7$

In problems 12-14, find the special product

12 $x^2 + 8x + 16$	13. $9x^2 - 49$
14. $4a^2 - b^2$	