

Greatest Common Factor; Factoring by Grouping - Key

In problems 1-9, factor out the greatest common factor

1. $7(x-2)$	2. $2x^2(6x^2 - 2x + 1)$
3. $-3x^2(5x^6 + 1)$	4. $xy^3(x - y^2)$
5. $-2x(3x - 4)$	6. $2x^2(x^8 - 4)$
7. $5x^{1/2}(x^2 - 2)$	8. $9x(x + 2)$
9. $(x-3)(8x+5)$	

In problems 10-15, factor by grouping

10. $(2x - y)(a - 3b)$	11. $(x - 7)(x + 3)$
12. $(y + 3)(y^2 - 7)$	13. $5x(x^2 + 2)(x - 1)$
14. $(x + y)(a - b)$	15. $(4a - c)(x^2 - 2)$