

## 5.5

- 1)  $6(p - 7)$   
 $6p - 42$
- 3)  $2(6x + 3)$   
 $12x + 6$
- 5)  $5m^4(4m + 4)$   
 $20m^5 + 20m^4$
- 7)  $(4n + 6)(8n + 8)$   
 $32n^2 + 32n + 48n + 48$   
 $32n^2 + 80n + 48$
- 9)  $(8b + 3)(7b - 5)$   
 $56b^2 - 40b + 21b - 15$   
 $56b^2 - 19b - 15$
- 11)  $(4x + 5)(2x + 3)$   
 $8x^2 + 12x + 10x + 15$   
 $8x^2 + 22x + 15$
- 13)  $(3v - 4)(5v - 2)$   
 $15v^2 - 6v - 20v + 8$   
 $15v^2 - 26v + 8$
- 27)  $(6x + 3y)(6x^2 - 7xy + 4y^2)$   
 $36x^3 - 42x^2y + 24xy^2 + 18x^2y - 21xy^2 + 12y^3$   
 $36x^3 - 24x^2y + 3xy^2 + 12y^3$
- 29)  $(8n^2 + 4n + 6)(6n^2 - 6n + 6)$   
 $48n^4 - 40n^3 + 48n^2 + 24n^3 - 20n^2 + 24n + 36n^2 - 30n + 36$   
 $48n^4 - 16n^3 + 64n^2 - 6n + 36$
- 31)  $(5k^2 + 3k + 3)(3k^2 + 3k + 6)$   
 $15k^4 + 15k^3 + 30k^2 + 9k^3 + 9k^2 + 18k + 9k^2 + 9k + 18$   
 $15k^4 + 24k^3 + 48k^2 + 27k + 18$
- 33)  $3(3x - 4)(2x + 1)$   
 $3(6x^2 + 3x - 8x - 4)$   
 $3(6x^2 - 5x - 5)$   
 $18x^2 - 15x - 12$
- 15)  $(6x - 7)(4x + 1)$   
 $24x^2 + 6x - 28x - 7$   
 $24x^2 - 22x - 7$
- 17)  $(5x + y)(6x - 4y)$   
 $30x^2 - 20xy + 6xy - 4y^2$   
 $30x^2 - 14xy - 4y^2$
- 19)  $(x + 3y)(3x + 4y)$   
 $3x^2 - 4xy + 9xy + 12y^2$   
 $3x^2 + 13xy + 12y^2$
- 21)  $(7x + 5y)(8x + 3y)$   
 $56x^2 + 21xy + 40xy + 15y^2$   
 $56x^2 + 61xy + 15y^2$
- 23)  $(r - 7)(6r^2 - 4 + 5)$   
 $6r^3 - r^2 + 5r - 42r^2 + 7r - 35$   
 $6r^3 - 43r^2 + 12r - 35$
- 25)  $(6n - 4)(2n^2 - 2n + 5)$   
 $12n^3 - 12n^2 + 30n - 8n^2 + 8n - 20$   
 $12n^3 - 20n^2 + 38n - 20$

$$\begin{aligned} 35) & 3(2x + 1)(4x - 5) \\ & 3(8x^2 - 10x + 4x - 5) \\ & 3(8x^2 - 6x - 5) \\ & 24x^2 - 18x - 15 \end{aligned}$$

$$\begin{aligned} 37) & 7(x - 5)(x - 2) \\ & 7(x^2 - 2x - 5x + 10) \\ & 7(x^2 - 7x + 10) \\ & 7x^2 - 49x + 70 \end{aligned}$$

$$\begin{aligned} 39) & 6(4x - 1)(4x + 1) \\ & 6(16x^2 + 4x - 4x - 1) \\ & 6(16x^2 - 1) \\ & 96x^2 - 6 \end{aligned}$$