Name _____

Monomials by Polynomials

Multiply the Polynomials.

1) $(x + 2)$ by $(x + 3)$ = $x^2 + 5x + 6$

2) $(2y - 4)$ by $(y + 7)$ = $2y^2 + 6y - 20$

3) $(3a + 1)$ by $(2a - 2)$ = $6a^2 - 4a - 2$

4) $(b + 6)$ by $(2b - 3)$ = $2b^2 + 9b - 18$

5) $(c - 2)$ by $(c + 7)$ = $c^2 + 5c - 14$

6) $(3m + 2)$ by $(m - 4)$ = $3m^2 - 10m - 8$

7) $(p - 5)$ by $(p + 1)$ = $p^2 - 4p - 5$

8) $(x^2 - 3x + 3)$ by $(x - 4)$ = $x^3 - 7x^2 + 14x - 8$

9) $(2y + 1)$ by $(3y^2 - y + 4)$ = $6y^3 + y^2 + 7y + 4$

10) $(4a - 5)$ by $(a^2 + 2a - 3)$ = $4a^3 + 3a^2 - 22a + 15$

11) $(b^2 + b - 1)$ by $(b + 2)$ = $b^3 + 3b^2 + b - 2$

12) $(c + 3)$ by $(2c^2 - c + 4)$ = $2c^3 + 5c^2 + c - 12$

13) $(m^2 - 2m + 1)$ by $(m + 3)$ = $m^3 + m^2 - 5m + 3$

14) $(p + 4)$ by $(3p^2 - 2p + 5)$ = $3p^3 + 10p^2 - 3p + 20$

15) $(2x - 3)$ by $(x^2 + x + 1)$ = $2x^3 - x^2 - x - 3$