NAME _____ DATE _____

Practice

Multiplying Polynomials

Find each product.

1. $(x + 2)(x + 7)$

2. $(y + 6)(y + 3)$

3. $(a - 3)(a - 8)$

4. $(r - 5)(r - 1)$

5. $(x - 10)(x + 2)$

6. $(3t + 2q)(7t - 9q)$

7. $(7y - 4t)(2y + 5t)$

8. $(5w - 3y)(w - 2y)$

9. $(a + b)(2a - 3b)$

10. $(0.3n + 5)(0.4n - 11)$

11. $(1.3g + 3)(0.4g + 5)$

12. $(x + y)(x + y)$

13. $(z - 2x)(z - 2x)$

14. $(3x + 2y)(2y + 3x)$

15.
$$\begin{array}{r} y^2 + 3y - 6 \\ \times \qquad 2y + 3 \\ \hline \end{array}$$

16.
$$\begin{array}{r} a^2 + 2a - 9 \\ \times \qquad a + 3 \\ \hline \end{array}$$

17.
$$\begin{array}{r} e^2 - 2ef + f^2 \\ \times \qquad e - f \\ \hline \end{array}$$

18.
$$\begin{array}{r} 9m^2 - 12m + 4 \\ \times \qquad 3m + 2 \\ \hline \end{array}$$

19. $(2a - 1)(a^2 + 3a + 5)$

20. $(2 + 3c)(4 + 6c + 9c^2)$