**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_**

**Multiplying Polynomials**

**Worksheet 491**

**Find each product.**

**1.** (*x* + 2)(*x* + 3) **2.** (*x* – 4)(*x* + 1) **3.** (*x* – 6)(*x* – 2)

**4.** (*p* – 4)(*p* + 2) **5.** (*y* + 5)(*y* + 2) **6.** (2*x* – 1)(*x* + 5)

**7.** (3*n* – 4)(3*n* – 4) **8.** (8*m* – 2)(8*m* + 2) **9.** (*k* + 4)(5*k* – 1)

**10.** (3*x* + 1)(4*x* + 3) **11.** (*x* – 8)(–3*x* + 1) **12.** (5*t* + 4)(2*t* – 6)

**13.** (5*m* – 3*n*)(4*m* – 2*n*) **14.** (*a* – 3*b*)(2*a* – 5*b*) **15.** (8*x* – 5)(8*x* + 5)

**16.** (2*n* – 4)(2*n* + 5) **17.** (4*m* – 3)(5*m* – 5) **18.** (7*g* – 4)(7*g* + 4)

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_**

**Multiplying Polynomials**

**Worksheet 492**

**Find each product.**

**1.** (*x* + 2)($x^{2}$ – 2*x* + 1) **2.** (*x* + 3)(2$x^{2 }$+ *x* – 3) **3.** (2*x* – 1)($x^{2}$ – *x* + 2)

**4.** (*p* – 3)($p^{2}$ – 4*p* + 2) **5.** (3*k* + 2)($k^{2}$ + *k* – 4) **6.** (2*t* + 1)(10$t^{2}$ – 2*t* – 4)

**7.** (3*n* – 4)($n^{2}$ + 5*n* – 4) **8.** (8*x* – 2)(3$x^{3}$ + 2*x* – 1) **9.** (2*a* + 4)(2$a^{2}$ – 8*a* + 3)

**10.** (3*x* – 4)(2$x^{2}$ + 3*x* +3) **11.** ($n^{2}$ + 2*n* – 1)($n^{2}$ + *n* + 2) **12.** ($t^{2}$ + 4*t* – 1)(2$t^{2}$ – *t* – 3)

**13.** ($y^{2}$ – 5*y* + 3)(2$y^{2}$ + 7*y* – 4) **14.** (3$b^{2}$ – 2*b* + 1)(2$b^{2}$ – 3*b* – 4)