Honors Algebra 2 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mixed Review Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_

Multiply the given binomials.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** | (x + 3)(2x – 5) |  | **2.** | ( x – 1)(x + 1) |  | **3.** | (3w + 4)(2w – 1) |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **4.** | (*x +* 5)(*x +* 4) |  | **5.** | (2*b –* 1)(*b*2–3*b* + 4) |  | **6.** | (*a –* 11)(*a* + 5) |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **7.** | (2*g* – 3)(2*g* + *3*) |  | **8.** | (3*s* – 4)(*s* – 5) |  | **9.** | (4*x +* 3)(*x –* 7) |

Solve each equation. Check your solution(s).

**10.** *x*2 **+** 5*x* **+** 6 = 0 **11.** *b*2 - 7*b* = 18 **12. 2***r*2 - 40 = 0

**13.** *s*2 - 3*s* - 10 = 0 **14. 2***x*2 = 50 **15.** *h*2 **+** 10*h* = -21

**16.** *x*2 **+** 7*x* = 8 **17.** 2*t*2 **+** 8*t* - 64 = 0 **18.** *x*2 - 45 = 0

**19.** 3*a*2 - 36*a* **+** 81 = 0 **20.**  6a² + 8a – 25 = -3 **21.** 8x² = 11x – 11 = 6