Name _____ Class _____ Date _____

8-5 Practice

Form G

Factoring $x^2 + bx + c$

Complete.

1. $k^2 + 11k + 30 = (k + 5)(k + \square)$

2. $x^2 + 6x + 9 = (x + 3)(x + \square)$

3. $t^2 + 7t + 10 = (t + 2)(t + \square)$

4. $n^2 + 9n + 14 = (n + 7)(n + \square)$

5. $w^2 + 13w + 36 = (w + 4)(w + \square)$

6. $y^2 + 18y + 65 = (y + 13)(y + \square)$

7. $s^2 - 12s + 32 = (s - 8)(s - \square)$

8. $g^2 - 14g + 45 = (g - 9)(g - \square)$

9. $v^2 - 17v + 60 = (v - 12)(v - \square)$

10. $q^2 - 13q + 42 = (q - 6)(q - \square)$

11. $d^2 - 9d + 8 = (d - 8)(d - \square)$

12. $r^2 - 9r + 20 = (r - 5)(r - \square)$

Factor each expression. Check your answer.

13. $y^2 + 5y + 6$

14. $t^2 + 9t + 18$

15. $x^2 + 16x + 63$

16. $n^2 - 12n + 35$

17. $r^2 - 12r + 27$

18. $q^2 - 12q + 20$

19. $w^2 + 19w + 60$

20. $b^2 - 11b + 24$

21. $z^2 - 13z + 12$