

Algebra Worksheet – Section 10.5
Factoring Polynomials of the form

$$x^2 + bx + c$$

Name _____

Block _____

Factor

1. $x^2 + 3x + 2$

2. $x^2 - x - 2$

3. $x^2 + x - 6$

4. $a^2 + a - 12$

5. $a^2 - 2a - 35$

6. $b^2 + 8b + 16$

7. $b^2 + 7b - 8$

8. $y^2 - y - 6$

9. $x^2 - 4x - 45$

10. $y^2 - 8y + 15$

11. $p^2 + 12p + 27$

12. $b^2 + 9b + 20$

13. $b^2 + 3b - 40$

14. $a^2 - 15a + 36$

15. $c^2 + 11c + 18$

16. $x^2 + 21x + 100$

Solve each equation by factoring

17. $x^2 + 5x + 6 = 0$

18. $b^2 - b - 20 = 0$

19. $y^2 - y - 72 = 0$

20. $x^2 - 12x = -11$