

**Corrective Assignment****Factor each completely.**

1.  $m^2 - 2m - 8$

2.  $b^3 - 5b^2$

3.  $6p^2 - 72p + 120$

4.  $x^3 + 13x^2 + 42x$

5.  $-14x^2 - 50x + 24$

6.  $5a^2 - 12a - 9$

7.  $6n^2 - 19n + 8$

8.  $-20x^2 - 200x$

**Solve each equation by factoring.**

9.  $m^2 + 7m + 10 = 0$

10.  $r^2 - 7r - 8 = 0$

11.  $35x^2 - 29x - 35 = -7$

12.  $35n^2 - 24n = -4$

13.  $-18 = v^2 + 9v$

14.  $-24 = -5b - b^2$

15.  $x^2 + 23x - 138 = 8x - 4x^2 + 2$

16.  $n^2 - n - 6 = -4$

**Solve by graphing.**

17.  $y = -\frac{1}{2}x^2 + 4x - 5$

18.  $y = -2x^2 + 16x - 36$

19.  $y = -\frac{1}{2}x^2 - 2x$

20.  $y = -2x^2 + 16x - 28$

**ANSWERS TO CORRECTIVE ASSIGNMENT 1.3 FACTORING**

1. $(m + 2)(m - 4)$	2. $b^2(b - 5)$	3. $6(p - 10)(p - 2)$	4. $x(x + 6)(x + 7)$
5. $-2(7x - 3)(x + 4)$	6. $(5a + 3)(a - 3)$	7. $(3n - 8)(2n - 1)$	8. $-20x(x + 10)$
9. $m = -5, -2$	10. $r = -1, 8$	11. $x = -\frac{4}{7}, \frac{7}{5}$	12. $n = \frac{2}{7}, \frac{2}{5}$
13. $v = -6, -3$	14. $b = -8, 3$	15. $x = -7, 4$	16. $n = -1, 2$
17. $x = 1.551$ and $6.449$	18. No Solution	19. $x = -4$ and $0$	20. $x = 2.586$ and $5.414$