

**Corrective Assignment #2****Answer the following. Justify your answer by showing work!**

1. Is  $(x + 2)(x + 3)$  the factored form of  $x^2 + 5x + 6$  ?

2. Is  $(x - 3)(x - 7)$  the factored form of  $x^2 - 3x + 21$  ?

3. Is  $(h + 5)(h - 5)$  the factored form of  $h^2 - 25$  ?

4. Is  $(p - 5)(p + 2)$  the factored form of  $p^2 + 3p + 10$  ?

**Factor the following if possible. Check your answer by multiplying!**

5.  $x^2 - x - 12$

6.  $x^2 + 5x + 6$

7.  $x^2 - 2x - 24$

8.  $p^2 - 16$

9.  $n^2 - 16n + 48$

10.  $d^2 + 17d + 16$

**Solve the following by factoring.**

11.  $x^2 + 5x - 36 = 0$

12.  $0 = b^2 - 25$

**Solve the following by factoring.**

13.  $x^2 + 7x = -12$

14.  $10m^2 + 30m = 0$

15.  $3x = x^2 - 18$

16.  $d^2 - 64 = 0$

17.  $y^2 - 12y = -35$

18.  $0 = f^2 + 7f + 6$

### **ANSWERS TO CORRECTIVE ASSIGNMENT**

1. YES	2. NO	3. YES	4. NO
5. $(x - 4)(x + 3)$	6. $(x + 2)(x + 3)$	7. $(x - 6)(x + 4)$	8. $(p + 4)(p - 4)$
9. $(n - 12)(n - 4)$	10. $(d + 16)(d + 1)$	11. $x = -9, 4$	12. $b = -5, 5$
13. $x = -4, -3$	14. $m = -3, 0$	15. $x = -3, 6$	16. $d = -8, 8$
17. $y = 7, 5$	18. $f = -6, -1$		