

Corrective

Answer the following. Justify your answer by showing work!

1. Is $3(2x - 5)(x + 3)$ the factored form of $6x^2 - 3x - 45$?	2. Is $x(4x + 3)(2x - 7)$ the factored form of $8x^3 - 22x^2 - 21x$?
3. Is $2(3h + 4)(3h - 4)$ the factored form of $12h^2 - 16$?	4. Is $-(7p + 5)(3p + 2)$ the factored form of $-21p^2 - 29p - 10$?

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

5. $3x^2 + 9x - 30$	6. $2x^2 - 18$	7. $12x^3 + 17x^2 - 5x$
8. $p^3 - 4p^2 + 3p$	9. $8n^2 - 34n + 8$	10. $12d^3 - 27d$

Solve the following by factoring.

11. $2x^2 + 12x = -16$

12. $3m^3 + 5m^2 = 2m$

13. $18x^2 = 2x^3 + 40x$

14. $30d^2 - 55d = -15$

15. $5y^2 - 25y = 0$

16. $0 = 9f^3 - 63f^2 + 54f$

ANSWERS TO CORRECTIVE ASSIGNMENT

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