

Math 3 Advanced

6.2 Practice Problems with KEY

Multiply and simplify polynomial expressions.

1. $(y + 3)(y^2 + 5y - 4)$

2. $(a - 2)(a^2 + 3a - 8)$

3. $(w^2 - 2w - 7)(w + 5)$

4. $(r^2 - 4r + 5)(r - 6)$

5. $(c^2 + 2c + 8)(3c - 2)$

6. $(n^2 - 4n - 8)(7n + 1)$

7. $(6y - 7)(y^2 - 3y - 4)$

8. $(4k + 3)(k^2 + k - 9)$

9. $(x^2 + 5x - 1)(x^2 + 3x + 2)$

10. $(m^2 - 8m - 4)(m^2 + 3m - 5)$

11. $(u^2 - 7u + 3)(u^2 + 5u + 6)$

12. $(w^2 + w - 9)(w^2 - 4w - 5)$

Answer List

1. $y^3 + 8y^2 + 11y - 12$

3. $w^3 + 3w^2 - 17w - 35$

5. $3c^3 + 4c^2 + 20c - 16$

7. $6y^3 - 25y^2 - 3y + 28$

9. $x^4 + 8x^3 + 16x^2 + 7x - 2$

11. $u^4 - 2u^3 - 26u^2 - 27u + 18$

2. $a^3 + a^2 - 14a + 16$

4. $r^3 - 10r^2 + 29r - 30$

6. $7n^3 - 27n^2 - 60n - 8$

8. $4k^3 + 7k^2 - 33k - 27$

10. $m^4 - 5m^3 - 33m^2 + 28m + 20$

12. $w^4 - 3w^3 - 18w^2 + 31w + 45$