

LESSON 5-1**Practice and Problem Solving: A/B**

1. $10x^5y^3$
2. $-15p^4r^2$
3. $22a^6b^6$
4. $18c^5d^6$
5. $12a^2 + 8a - 28$
6. $9x^5 - 36x^4 - 27x^3$
7. $-12s^5 + 24s^4 - 60s^3$
8. $30a^8 - 10a^6 - 5a^5$
9. $-56pr^3 - 16p^2r^2 + 64p^2r$
10. $6m^2n^6 + 2mn^5 + 8m^2n^4$
11. $-6x^6y^2 - 15x^5y^3 - 27x^4y^4$
12. $9v^5w^3 + 12v^4w^4 - 6v^2w^5$
13. $-28a^4b^6 - 7a^3b^4 + 35a^5b^4$
14. $16p^8q^4 - 6p^7q^3 + 10p^6q^3$
15. a. $w(w + 3)$ or $w^2 + 3w$
b. 28 in.^2
16. a. $w(3w - 8)$ or $3w^2 - 8w$
b. 220 cm^2

Practice and Problem Solving: C

1. $4m^6$
2. $-27x^9$
3. $\frac{1}{3}x^3y^3$
4. $-36c^6d^7$
5. $3x^3 + 5x^2 + 2\frac{1}{2}x$
6. $2x^4 - 3.2x^3 - 0.56x^2$
7. $-6v^3 + 6v$
8. $28a^8 - 20a^6 - 5a^5 + 6a$
9. $-45s^3$
10. $6j^2k^6 - 7j^3k^3 + 7j^2k^4$
11. $-6x^6y^2 - 14x^5y^3 - 29x^4y^4$
12. $41pr^3 + 2p^2r^2 - 16p^2r$
13. a. $3x^3 - 27x^2 + 15x$
b. $5x^3 - 30x^2 - 45x$
c. $2x^3 - 3x^2 - 60x$
14. Possible answer: $8a(3a^2b^2 - 2ab)$;
 $4a(6a^2b^2 - 4ab)$; $8ab(3a^2b - 2a)$;
 $8a^2(3ab^2 - 2b)$

**Practice and Problem Solving:
Modified**

1. $32x^6$
2. $15p^4$
3. $22a^7b^4$
4. $18c^5d$
5. $45r^4s^3$
6. $-16x^7y^5$
7. $21a^2 + 14a - 49$
8. $27x^2 - 36x - 27$
9. $-12s^5 + 24s^4 - 60s^3$
10. $30a^6 - 10a^4 - 5a^2$
11. $-56r^3 - 16pr^2 + 64rp$
12. $6n^6 + 2m^2n^5 - 8n^4$
13. $-24x^6y^2 + 15x^5y^3 - 27x^4y^4$
14. $10v^5w^3 + 20v^4w^4 - 5v^2w^5$
15. a. w
b. $w + 5$
c. $w^2 + 5w$
d. 24 in.^2
e. 126 in.^2