

## LESSON 5-2

### Practice and Problem Solving: A/B

- $x^2 + 11x + 30$
- $a^2 - 10a + 21$
- $d^2 + 4d - 32$
- $2x^2 + 5x - 12$
- $5b^2 - 9b - 2$
- $6p^2 + 5p - 6$
- $10k^2 - 38k + 36$
- $6m^2 + m - 40$
- $20 + 3g - 56g^2$
- $r^2 - 4rs - 12s^2$
- $6 - 19v + 10v^2$
- $25 - h^2$
- $y^2 - 9$
- $z^2 - 10z + 25$
- $9q^2 - 49$
- $16w^2 + 72w + 81$
- $9a^2 - 24a + 16$
- $25q^2 - 64r^2$
- $x^3 + 7x^2 + 17x + 20$
- $3m^3 - 5m^2 + 3m + 20$
- $8x^3 - 26x^2 + 17x - 5$
- $5x^2 + 6x + 1$
- $105 \text{ in.}^2$
- $3x^2 - 12$ ; \$351

### Practice and Problem Solving: C

- $2x^2 + 22x + 60$
- $3a^2 - 30a + 63$
- $-160 + 20d + 5d^2$
- $8x^2 + 20x - 48$
- $30b^2 - 54b - 12$
- $-12p^2 - 10p + 12$
- $20(k^3) - 76(k^2) + 72k$
- $6m^4 + m^3 - 40m^2$
- $-160g^2 - 24g^3 + 448g^4$
- $r^3s - 4r^2s^2 - 12rs^3$
- $24v - 76v^2 + 40v^3$

- $150h^2 - 486h^4$
- $4y^5 - 9y$
- $108z^2 - 180z + 75$
- $36c^3 - 196cd^2$
- $-48w^3 - 216w^2 - 243w$
- $18a^3 - 48a^2 + 32a$
- $25q^5r - 64qr^5$
- $6x^3 - 11x^2 - 18x + 7$
- $20z^3 + 24z^2 - 5z - 6$
- $25x^3 + 20x^2 - 51x + 18$
- $8x^3 + 36x^2 + 54x + 27$
- Substitute 4 for  $x$  and evaluate the polynomial;  $1,331 \text{ in.}^3$ ; substitute 4 in  $2x + 3$  and cube it. The results should be the same.
- $n^2 - 1$ ;  $n^3 - 1$ ;  $n^4 - 1$ ; the greatest power of  $n$  in the polynomial is increased by 1 and the product is the difference between that power of  $n$  and 1;  $n^5 - 1$