

Section 6 Review Special Products

The use of algebra and its symbolism has advanced the areas of science and technology over the century's. This chapter we develop a strong sense of the arithmetic in algebra and its uses in our world.

The objective for this section is to:

- Review products including some very special ones
- Process the cubing of binomials

Find the indicated products directly by inspection. It should not be necessary to write down intermediate steps.

1. $3a^2(2a+7)$

4. $(1-e^3)(7-e^3)$

2. $(3x-7)(4x+5)$

5. $[(6t-y)(6t+y)]^2$

3. $(i_1+4)^2$

6. $(x+2+3y)^2$

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7. $L_0[1 + a(T - T_0)]$ used in thermal

expansion

8. $\frac{1}{2}\pi(R + r)(R - r)$ used in
architecture