

[11-04-21-T8]

Exam covers

This exam covers, in the J9 book, Chapter 1 *Square Roots* and Chapter 2 *Polynomials* except as noted below.

■ Exclude from Chapter 1.

[1] Pages 7-13

[2] Pages 25-27

■ Special reminder for Chapter 2

You must know by heart the following special formulae and be able to use them to find the product of binomials *and* to factor polynomials. These formulae are:

$$(a + b)^2 = a^2 + 2 a b + b^2 \quad (1)$$

$$(a - b)^2 = a^2 - 2 a b + b^2 \quad (2)$$

$$(a + b)(a - b) = a^2 - b^2 \quad (3)$$

Also, never overlook the first step in factoring a polynomial which is to factor out any factor that is common to all the terms of the sum.

■ General advice

This material is very skill intensive. There is not much theory. Practice and more practice is the route to mastering these essential skills. You have been given many practice problems in addition to those that appear in the textbook. These additional problems have all been accompanied with answers so that you can check your work. If you lost any of these problem sets, they are all available at math.mnrt.net.

Questions that occur to you as you review this material will be given first priority in class. As is always the case, *specific* questions will bring answers that are most helpful to you.