

Math 105 TOPICS IN MATHEMATICS
REVIEW OF LECTURES – XXI (SUPPLEMENT)

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APPENDIX TO §21. SOME EXPANSIONS.

1. How do you expand

$$(x+2)(x+3)?$$

— You should use the formula:

Formula.	$(x+a)(x+b) = x^2 + (a+b)x + ab$
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So, we can do

$$(x+2)(x+3)$$

as follows:

$$\begin{aligned} (x+2)(x+3) &= x^2 + (2+3)x + 2 \cdot 3 \\ &= x^2 + 5x + 6. \end{aligned}$$

Exercise 1. Expand each of

$$(1) \quad (x+1)(x+4). \quad (2) \quad (x+6)(x+7). \quad (3) \quad (x-2)(x+5).$$