

Warm-up 3/23/17

Determine the product.

1. $4x \cdot x = 4x^2$

$-3 \cdot x \cdot 10 \cdot x$

2. $-3x \cdot 10x = -30x^2$

3. $-x(5+4x) = -5x - 4x^2 = -4x^2 - 5x$

4. $(2x-8) \cdot (12x) = 24x^2 - 96x$

Pg. 958-959

$(x+1)(x+2) = x^2 + 3x + 2$

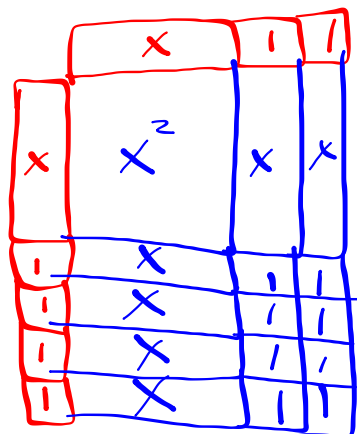
		$x + 2$	
	•	x	$1 \quad 1$
x	x	x^2	$x \quad x$
$+1$	1	x	$1 \quad 1$

$x^2 + x + x + x + 1 + 1$

$x^2 + 3x + 2$

Pg. 960

4b

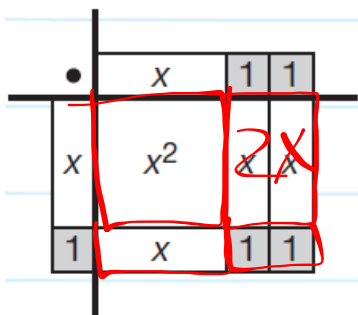


$$x^2 + 6x + 8$$

Pg. 963

1-2

$$(x+1)(x+2)$$



	x	2
x	x^2	$2x$
1	x	2

$$x^2 + 3x + 2$$

Pg. 964

4a

$$(3u+17)(4u-6)$$

	$4u$	-6
$3u$	$12u^2$	$-18u$
17	$68u$	-102

$$12u^2 + 50u - 102$$

Pg. 965

$$(x+1)(x+2)$$

$$x^2 + 2x + x + 2$$

$$x^2 + 3x + 2$$

		x	1	1
x	x^2	x	x	
1	x	1	1	

	x	2
x	x^2	2x
1	x	2

Pg. 967

5c

$$(x+1)(x+3)$$

$$x^2 + 3x + x + 3$$

$$x^2 + 4x + 3$$

d

$$(x-4)(2x+3)$$

	2x	3
x	$2x^2$	3x
-4	-8x	-12

$$2x^2 - 5x - 12$$

Pg. 968

$$(x+1)(x^2-3x+2)$$

$$x^3 - 3x^2 + 2x + x^2 - 3x + 2$$

$$x^3 - 2x^2 - x + 2$$

$$(x^2-3x+2)(x+1)$$

$$x^3 + x^2 - 3x^2 - 3x + 2x + 2$$

$$x^3 - 2x^2 - x + 2$$

Pg. 969

4b

$$(2x^2 - 3x - 4)(x + 5)$$

$$2x^3 + 10x^2 - 3x^2 - 15x - 4x - 20$$

$$2x^3 + 7x^2 - 19x - 20$$