

Warm-up 3/24/17

Determine the product.

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

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

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

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

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

$x^2 + 3x + 2$

Pg. 960

4b

	x	1	1
x	x ²	x	x
1	x	1	1
1	x	1	1
1	x	1	1
1	x	1	1

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

Pg. 963

1-2

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

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

	x	2
x	x^2	2x
1	x	2

Pg. 964

4a

$$\begin{array}{r|l} 3u & 17 \\ \hline 4u & 12u^2 & 68u \\ \hline -6 & -18u & -102 \end{array}$$

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

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	x ²	x
3	3x	3

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

d

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

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

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

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

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

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

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