Ho mework Review - p. 565

$$A = 2 \times W$$
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 A

- (33) p(2p-3) + (p-3)(p+3) $2p^{2}-3p+p^{2}+3p+3p-9$ $3p^{2}-3p-9$
- (5x+8)(2x+5) $10x^{2}+25x+16x+40$ $10x^{3}-41x+40$

Multiplying polynomials horizontally

shis is the technique we've used

Multiplying polynomials vertically:

$$\frac{13^{2} + 65 + 7}{35 + 4}$$

$$\frac{35^{3} + 185^{2} - 215 + 0}{35^{3} + 185^{2} - 215 + 28}$$

$$\frac{35^{3} + 145^{3} - 455 + 28}{35^{3} + 145^{3} - 455 + 28}$$

Multiply polynomials using a table $(x+4)(3x^2+3x+2)$ $3x^3 - 9x^2 - 10$

FOIL method for multiplying two binomials nnes

Find the product.

1.
$$-8y^{3}(2y^{4} - 5y^{2} + 3)$$

(vertical)
 $3y^{4} + 5y^{2} + 3$
 $-8y^{3}$
 $-8y^{3}$
 $-8y^{3}$

2.
$$(b+3)(3b^2-2b+1)$$
 (vertical, horizontal)

3. $(6w+3)(4+3w)$
 (Fort, table)

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5. $(4+3w)$

6. $(4+3w)$

7. $(4+3w)$

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6. $(4+3w)$

6. $(4+3w)$

7. $(4+3w)$

8. $(4+3w)$

8.

Quiz
$$\begin{array}{c|c}
 & \times & 4 \\
 & \times & 4 \\
\hline
 & \times$$

Showne of a binomial pattern
$$(a+b)^{2} = a^{2} + 2ab + b^{2}$$

$$(a-b)(a-b)^{2} = a^{2} - 2ab + b^{2}$$

$$(x-8)^{2} = x^{2} - 16x + 64$$

$$(-2x+2)^{2} = 4x^{2} - 8x + 4$$

Sum and Difference Pattern:

$$(a+b)(a-b) = a^{a}-b^{a}$$

$$a^{a}-ab+ab-b^{a} = a^{a}-b^{a}$$

$$(2x+2)(2x-2) = 4x^{a}-4$$

$$(3x^{a}+2x)(3x^{a}-2x) = 9x^{4}-4x^{a}$$

binomials only

$$205 \times 195$$

 $(200+5) \times (200-5)$
 $40000-25=39975$

Find the product of the square of the binomial.

1.
$$(x-9)^2$$

2.
$$(m+11)^2$$

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$$(m+11)^2$$
 3. $(5s+2)^2$ $m^2 + 22m + 121$ $25s^2 + 20s + 4$

3.
$$(5s+2)^2$$

Find the product of the sum and difference.

10.
$$(a-9)(a+9)$$

11.
$$(z-20)(z+20)$$
 12. $(5r+1)(5r-1)$

12.
$$(5r+1)(5r-1)$$

Homework:

p. 572, 4-40 even p. 574, 1-9 odd