

# 4-6 Multiplying Polynomials (12.1.2) Day #1

Examples... pg 162 WE

①  $(2x+1)(3x-5)$

$$6x^2 - 10x + 3x - 5$$

$$6x^2 - 7x - 5$$

③  $(2a+3)(a^2+3a+4)$

$$2a^3 - 6a^2 + 8a + 3a^2 - 9a + 12$$

$$2a^3 - 3a^2 - a + 12$$

⑤  $(3x-2y)(2x+5y)$

$$6x^2 + 15xy - 4xy - 10y^2$$

$$6x^2 + 11xy - 10y^2$$

⑨  $(y+3)(y+2)$

$$y^2 + 2y + 3y + 6$$

$$y^2 + 5y + 6$$

⑪  $(a+4)(a-1)$

$$a^2 - a + 4a - 4$$

$$a^2 + 3a - 4$$

⑬  $(3z-2)(z+3)$

$$6z^2 + 9z - 4z - 6$$

$$6z^2 + 5z - 6$$

22  $(y-5)(y^2-3y+7)$   
 $y^3 - 3y^2 - 7y - 5y^2 + 15y + 35$   
 $y^3 - 8y^2 + 8y + 35$

p. 162  
 2-36 even  
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30  $(5+x)(x^2-5x+4)$   
 ~~$5x^2 - 25x + 20 + x^3 - 5x^2 + 4x$~~   
 $x^3 - 21x + 20$

another

36  $(y-2x)(2x^2+y^2-3xy)$   
 $2x^2y + y^3 - 3xy^2 - 4x^3 - 2xy^2 + 6x^2y$   
 $8x^2y - 5xy^2 + y^3 - 4x^3$

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