

# Algebra 2

TUESDAY 10-9-12

CLASS NOTES

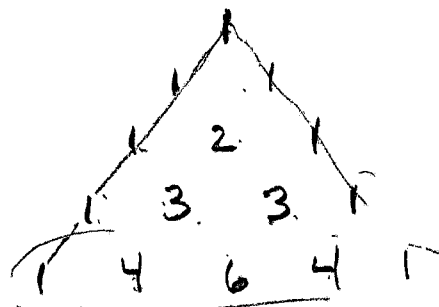
⑥  $(3x-2)(2x^2+3x-1)$

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$$\begin{array}{r} 6x^3 + 9x^2 - 3x \\ - 4x^2 - 6x + 2 \\ \hline \end{array}$$

$$6x^3 + 5x^2 - 9x + 2$$

⑭  $(x-2)^4$



$$1x^4 + 4x^3(-2) + 6x^2(-2)^2 + 4x(-2)^3 + (-2)^4$$

$$x^4 - 8x^3 + 24x^2 - 32x + 16$$

$$(a+b)^4$$

$$a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4$$

(15)  $(2x+y)^4$ :

Row 4 PT <sup>2</sup>  
 $1 \quad 4 \quad 6 \quad 4 \quad 1$

$$(2x)^4 + (2x)^3 y^1 + (2x)^2 y^2 + 1(2x)^1 y^3 + (y^4)$$

$$16x^4 + 8x^3y + 4x^2y^2 + 2xy^3 + y^4$$

$\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$   
 $1 \quad 4 \quad 6 \quad 4 \quad 1$

$$16x^4 + 32x^3y + 24x^2y^2 + 8xy^3 + y^4$$

$$\text{ws } (75) (y + 3x^2)^5$$

$$\text{Row 5 PT} \\ 1 \quad 5 \quad 10 \quad 10 \quad 5 \quad 1$$

$$1y^5 + 5y^4(3x^2)^1 + 10y^3(3x^2)^2 + 10y^2(3x^2)^3 + 5y^1(3x^2)^4 + (3x^2)^5$$

$$y^5 + 15x^2y^4 + 90x^4y^3 + 270x^6y^2 + 405x^8y^1 + 243x^{10}$$