Algebra 1   8.3
Multiply binomials using EWE
Multiply polynomials using EWE
distributive property
EWE
(FOIL = FAIL)
quadratic
standard form
X-factor

triangle puzzle (if time)
ICE WS

$$tri \cdot bi$$
$$tri \cdot tri$$

b. $(2y^2 + 3y - 1)(3y^2 - 5y + 2)$

$$2y^2 + 3y - 1$$
$$3y^2 - 5y + 2$$
$$\overline{}$$
$$4y^2 + 6y - 2$$
$$-10y^3 - 15y^2 + 5y$$
$$6y^4 + 9y^3 - 3y^2$$
$$\overline{}$$
$$6y^4 - y^3 - 14y^2 + 11y - 2$$

4A. $(3x - 5)(2x^2 + 7x - 8)$

4B. $(m^2 + 2m - 3)(4m^2 - 7m + 5)$

$$2x^2 + 7x - 8$$
$$\underline{3x - 5}$$

$$\pi(2x+1)^2 \quad \text{area}$$
$$\pi(2x+1)(2x+1) \Big\} \quad \text{circl}$$

$$4\pi \quad \pi 4$$

Triangle puzzle (if time)

$$\pi r^2 \qquad l \cdot w$$

$$\text{Circle} - \text{rect.}$$

$$\left(4\pi x^2 + 4\pi x + 1\pi\right) \div 1\left(x^2 + 2x - 15\right)$$

$$4\pi x^2 + 4\pi x + \pi \quad -x^2 - 2x + 15$$

$$\pi 4 x^2$$

labels: $2x+1$, $x-3$, $x+5$
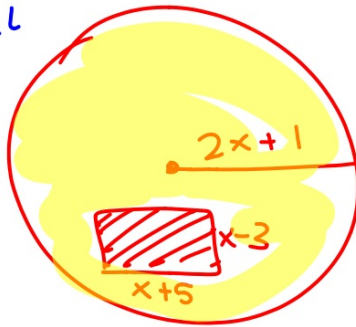
$$\text{area}$$
$$\text{rect} \quad 2x+1$$
$$2x+1$$
$$\underline{\qquad\qquad}$$
$$\begin{array}{r} 2x \quad +1 \\ 4x^2 \quad 2x \\ \hline 4x^2 + 4x + 1 \end{array}$$

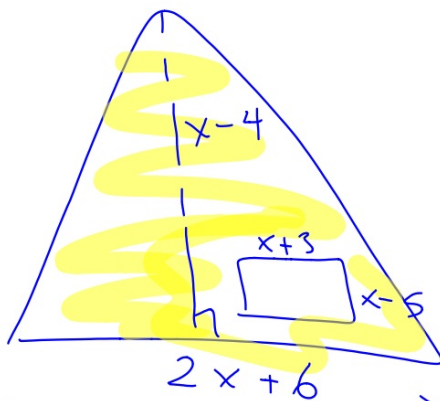$$\begin{array}{r} x+5 \\ x-3 \\ \hline x^2 \;\; -3x \;\; -15 \\ 5x \\ \hline x^2 + 2x - 15 \end{array}$$

$$A = \pi r^2$$
$$C = \pi \cdot d$$

$A = \frac{1}{2} b \cdot h$

$= \dfrac{b \cdot h}{2}$

$\frac{1}{2}(2x^2 - 2x - 24)$

$x - 4$

$x + 3$

h

$x - 5$

$2x + 6$

tri $-$ rect

$\left(x^2 - x - 12\right) + \overline{\left(x^2 - 2x - 15\right)}$

$\cancel{x^2} - x - 12 \quad \cancel{-x^2} + 2x + 15$

$x + 3$

$\begin{array}{r} 2x + 6 \\ x - 4 \\ \hline -8x \quad -24 \\ 2x^2 \, 6x \\ \hline 2x^2 - 2x - 24 \end{array}$

$\begin{array}{r} x + 3 \\ x - 5 \\ \hline x^2 \begin{smallmatrix} -5x \\ 3x \end{smallmatrix} -15 \\ \hline x^2 - 2x - 15 \end{array}$