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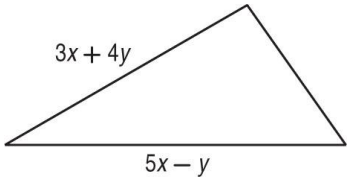
Ch 8 REVIEW: Finish Pg1-2 During Class

T 8-1: I can write polynomials in standard form, name leading coefficient, name degree and perform addition and subtraction on polynomials.

1. $(5a^2 + 6a + 2) - (7a^2 - 7a + 5)$ Standard Form:_____ Degree:_____Leading Coefficient:_____	2. $(-4p^2 - p + 9) + (p^2 + 3p - 1)$ Standard Form:_____ Degree:_____Leading Coefficient:_____

3. The measures of two sides of a triangle are given. If P is the perimeter, and $P = 10x + 5y$, find the measure of the third side. ($Perimeter = sum\ of\ all\ sides$)



T8-2: I can multiply polynomials using the distributive & double distributive method.

Write answers in standard form and always show ALL steps!

1. $6t(2t - 3) - 5(2t^2 + 9t - 3)$	2. $-2(3m^3 + 5m + 6) + 3m(2m^2 + 3m + 1)$

Solve. Show all steps and verify your answer!

3. $3(a + 2) + 5 = 2a + 4$	4. $2(4x + 2) - 8 = 4(x + 3)$

Find each product. Double Distribute.

5. $(4h - 2)(4h - 1)$	6. $(w + 4)(w^2 + 3w - 6)$

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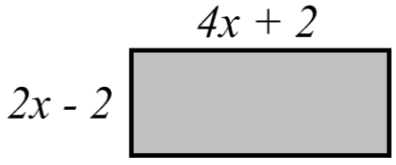
T 8-3: I can multiply polynomials using FOIL method.

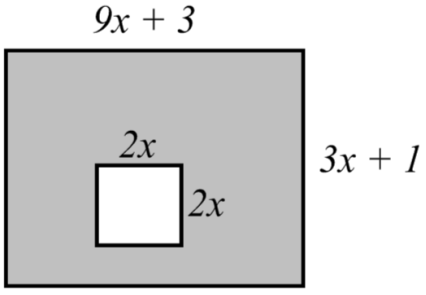
1. $(n + 9)^2$	2. $(2x - 8)^2$
3. $(k + 13)(k - 13)$	4. $(3x - 5)(3x + 5)$

Find an expression to represent the area of the shaded regions of the figures. ($Area = Base \cdot Height$)

5.



6.



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<u>T 8-1:</u> I can write polynomials in standard form, name leading coefficient, name degree and perform addition and subtraction on polynomials.

Section 8.1: Find each sum or difference.

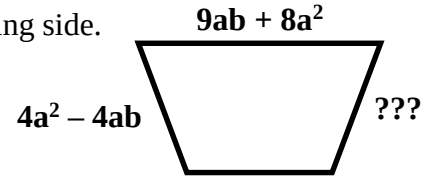
1. $(4y + 5) + (-7y - 1)$

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

3. $(4k^2 + 8k + 2) - (2k + 3)$

4. $(x^3 - 3x + 1) - (x^3 + 7 - 12x)$

5. Find the missing side.



<u>Perimeter</u>
$9b^2 - 2ab + 12a^2$

6. The measure of the perimeter of a triangle is 37s + 42. It is known that two of the sides of the triangle have measures of 14s + 16 and 10s + 20. Find the length of the third side.

Write each polynomial in standard form. Identify the leading coefficient.

8. $8x^2 - 15 + 5x^5$

9. $10x - 7 + x^4 + 4x^3$

10. $13x^2 - 5 + 6x^3 - x$

12. $4x + 2x^5 - 6x^3 + 2$

<u>T8-2: I can multiply polynomials using the distributive & double distributive method.</u>

Section 8.2: Find each product and simplify.

1. $2h(-7h^2 - 4h)$

2. $6pq(3p^2 + 4q)$

3. $-\frac{1}{4}m(8m^2 + m - 7)$

4. $-\frac{2}{3}n^2(-9n^2 + 3n + 6)$

5. $-2\ell(3\ell - 4) + 7\ell$

6. $5w(-7w + 3) + 2w(-2w^2 + 19w + 2)$

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Solve each equation.

8. $5(y + 1) + 2 = 4(y + 2) – 6$

9. $4(b + 6) = 2(b + 5) + 2$

T8-2 Double Distribute
(Section 8.3) Find each product.

1. $(m + 4)(m + 1)$

2. $(x + 2)(x + 2)$

3. $(r + 1)(r – 2)$

4. $(n – 5)(n + 1)$

5. $(4c + 1)(2c + 1)$

6. $(5a – 2)(2a – 3)$

7. $(x – y)(2x – y)$

8. $(t + 1)(t^2 + 2t + 4)$

<u>T 8-3: I can multiply polynomials using FOIL method.</u>

Section 8.4: Find each product using FOIL.

1. $(x - 10)^2$

2. $(r - 11)^2$

3. $(p + 7)^2$

6. $(2b + 6)(2b – 6)$

7. $(4j + 2)^2$

9. $(5w - 4)^2$

10. $(6a – 7b)(6a + 7b)$

11. $(8h + 3)(8h – 3)$

12. $(9x + 2y^2)^2$