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Name:_____ Date:_____

8A; Algebra 1 Period_____

Homework

Simplify the following

1) $4t - 3t^2 + 5 + (-2t^2 + 3t - 5)$

2) $a^2 + 3a + 5 + 2a^2 - 4a - 1 - 5a^2 + 2a$

3) Subtract $5x + 3y$ from $4x + 5y$

4) From $5x + 3y$ subtract $4x + y$

5) Represent the perimeter of a square whose side length is given by the binomial $4x + 6$

6) Represent the perimeter of a rectangle whose width is y and whose length is the binomial $2y - 7$

7)The perimeter of a triangle is given by the expression $12x^2 - 4x + 15$. Find the third side of the triangle if the other two sides measure $4x^2 + 3$ and $5x - 4$.

8) By how much does $7x + 5$ exceed $4x - 3$?

9) What expression must be added to $3x^2 - 5x + 4$ to give the result $7x^2 - 5x - 6$?

10) Subtract the sum of $2x^2 - 3x + 4$ and $x^2 + 2x - 1$ from $6x^2 - 2x + 1$.

11) $(y^2 - 4y) + (6 + 9y) - (2y^2 - 4)$

**Challenge: 12)

Write the length of the arc $\overset{\frown}{ABC}$ as a binomial involving x, y, and z.