

polcinomals

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## Tonight's HW: 1 page! <br> Algebra I - Unit 6: Topic 2 - Adding and Subtracting Polynomials

Practice - Adding and Subtracting Polynomials $\qquad$ Period $\qquad$

Classify each polynomial according to the number of terms.

1. $5 n^{3}+4 n$
2. $4 y^{6}-5 y^{3}+2 y-9$
3. $3 b^{7}+9 b^{5}+2 b^{7}-5$
4. $\frac{1}{4} w x^{5} y^{2} z^{2}$

Simplify the following polynomials.
5. $4.4 x^{2}+3.1 x-6.3 x-2 x^{2}$
6. $\left(2 t^{2}-8 t\right)+\left(8 t^{2}+9 t\right)$
7. $\left(3 x^{2}-x\right)-\left(x^{2}+3 x-x\right)$
8. $\left(-7 x^{2}-2 x+3\right)+\left(4 x^{2}-9 x\right)$
9. $\left(x^{2}-3 x+7\right)+\left(2 x-5+3 x^{2}\right)-\left(x^{2}-6 x\right)$
10. $\left(3 x^{2}-2 x+8\right)-\left(x^{2}-4\right)+\left(-4 x^{2}-5 x-2\right)$
11. The recreation field at Huffines Park is shaped like a rectangle with a length of $15 x$ yards and a width of $10 x-3$ yards. Write a polynomial in simplest form for the perimeter of the field. Then calculate the perimeter if $x=2$.
12. Darnell and Stephanie have competing vending machine businesses. Darnell's profit can be modeled with the polynomial $c^{2}+8 c-100$. Were $c$ is the number of items sold. Stephanie's profit can be modeled with the polynomial $2 c^{2}-7 c-200$. Write a polynomial in simplest form to show how much money they can expect to earn if they decided to combine their businesses.


