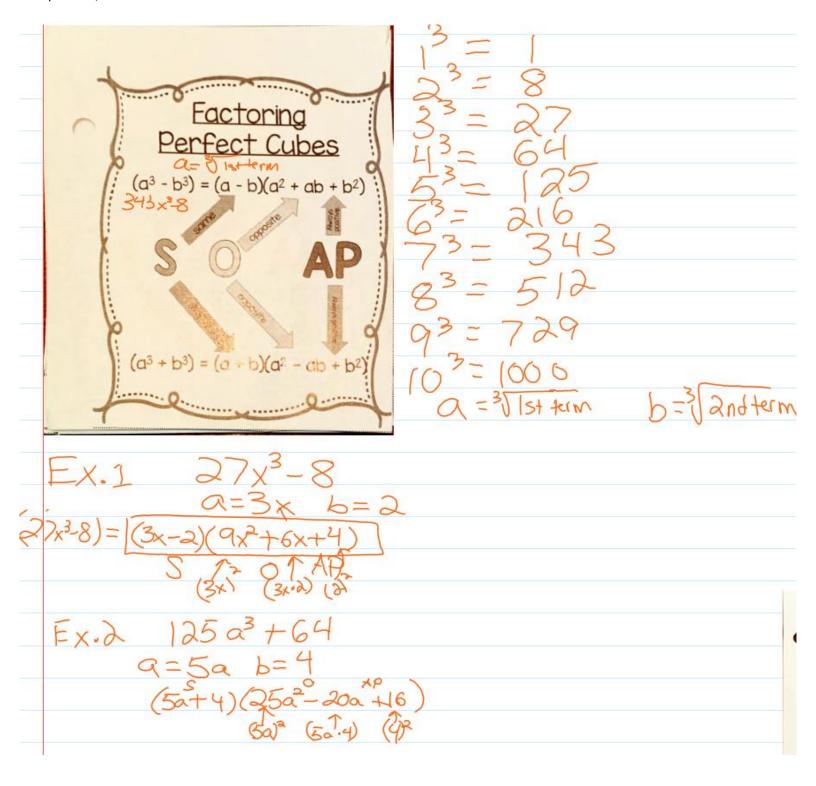
Today we learned about factoring sum of cubes and difference of cubes. We found that it is simply a pattern that can be followed and to know SOAP (Same Opposite Always Positive) to remember the signs. Below are the notes and the practice/homework.



Difference of Two Square/Sum and Diff of Cubes

Date_____Period___

Factor each completely.

1)
$$4a^2 - 1$$

2)
$$4n^2 - 25$$

3)
$$n^2 - 9$$

4)
$$25p^2 - 1$$

5)
$$4k^2 - 25$$

6)
$$n^2 - 1$$

7)
$$9p^2 - 1$$

8)
$$25x^2 - 1$$

9)
$$16n^2 - 25$$

10)
$$p^2 - 9$$

11)
$$m^3 - 216$$

12)
$$x^3 - 8$$

13)
$$x^3 + 64$$

14)
$$125x^3 + 8$$

15)
$$m^3 - 27$$

16)
$$8x^3 + 27$$

17)
$$m^3 + 1$$

18)
$$64x^3 - 1$$

19)
$$u^3 - 64$$

20)
$$8m^3 + 1$$