Today's Plan:

Learning Target (standard): I will practice factoring methods and solve equations by factoring.

Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, and complete practice problems.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide examples of test problems.

Assessment: Board work, homework check and homework assignment

Differentiation: Students will work at the board, go over and correct homework at their seats, and actively engage in practice problems.

Factoring Review #1-12

* Test today! *

1) $(7n^2+1)(n+1)$

2) $6(3p^2+5)(7p+6)$

3) $4n(5n+1)(n+1)$

4) $(3v-8)(3v+8)$

5) $5(2k+5)(5k+6)$

6) $(x+3)(8x-9)$

7) $(a^2-5)(a^2+3)$

8) $(2a^2+9)(5a^2-1)$

9) $(4x+1)^2$

10) $(2x+3)(4x^2-6x+9)$

11) $2(a-3)(a^2+3a+9)$

12) $b=-6,\frac{8}{5}$

Solve:

$-4a^2 + 31a = -8$

$0 = 4a^2 - 31a - 8$

32: $1 \cdot -32 = -31$

$0 = 4a^2 + a - 32a - 8$

$0 = a(4a+1) - 8(4a+1)$

$0 = (4a+1)(a-8)$

$a = -\frac{1}{4}, 8$

Factor Completely:

$x^8 - 10x^4 + 9$

9: $-9 \cdot -1 = -10$

$x^8 - 9x^4 - x^4 + 9$

$x^4(x^4-9) - 1(x^4-9)$

$(x^4-9)(x^4-1)$

$(x^2+3)(x^2-3)(x^2+1)(x^2-1)$

$(x^2+3)(x^2-3)(x^2+1)(x+1)(x-1)$