Algebra 2 EOC Review

April 7, 2015 Exit Slip

1. Prove the equation below is true x = - $\frac{1}{2}$.

 $\frac{4x^{2}}{2^{x}}$ = 2

2. What is the least common denominator of $\frac{3x}{x+1}$ + $\frac{x+1}{2x }$ + $\frac{5}{x }$ ?

3. 

4. Find the quotient and remainder for the rational expression $\frac{x^{3}+ -3x^{2 }+ x-6}{x^{2 }+ 2}$

Answers to Exit Slip.

1. 

2. 2x(x + 1)

3.

 Since the gym will hold a maximum of 1120 people, the number of guests and students must be less than or equal to 1120.

Let *g* represent the number of guests.

The inequality would be

40 + 40*g* ≤ 1120 40 students + 40 times the number of guests per student

-40 -40 Solve by first subtracting 40 from each side

40*g* ≤ 1080

40 40

*g* ≤ 27 Each student can invite a maximum of 27 guests.

 X – 3 - $\frac{x}{x^{2 }+ 2}$

4. x2 + 2 x3 – 3x2 + x – 6

 -(x3 + 2x)

 -3x2 – x – 6

 -(-3x2 - 6 )

 - x