Homework Week 11 – Due on Friday Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***“To me perseverance is having the will to be able to keep pushing forward” – J-von Hudson***

1. Divide the following using synthetic division:

$$(6x^{3}-7x^{2}-17x-14)÷(x-2)$$

1. Divide the following using synthetic division:

$$(x^{3}+5x^{2}-9)÷(x+2)$$

1. Divide the following using synthetic division:

$$(2x^{4}+5x^{2}-8)÷(x+1)$$

1. Divide the following using your method of choice:

$$(5x^{3}-7x^{2}-18x-14)÷(x-2)$$

Tuesday: Simplify the following: (use Pythagorean identities)

1. secx – tanx sinx
2. tanx + cotx
3. cosx + tanx sinx
4. 1 + tan2x
5. secx – cosx

Wednesday:

Thursday: (Mixed Review)

1.



2. Identify sin 225o

3. Identify the amplitude and the period of the following:

Y = 4sin2x

4. Identify the center and the radius of the following circle:

X2 + y2 + 18x + 15 = 12y

5. Identify the center and the radius of the following circle:

X2 + y2 + 4x - 5 = 8y