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Algebra II Honors Graphing Polynomial Functions Worksheet

I. For each of the following, a) give the x-intercepts as ordered pairs, b) the y-intercept as an ordered pair and c) graph. Pay close attention to the order of the intercepts and also label on the graph how it should look at that intercept (x, 1, or cc).

1. $f(x) = x^2 + 5x - 6$
2. $f(x) = x^2 - 4x^2$
3. $f(x) = x^2 + 2x^2 - 3x$
4. $f(x) = x^2 - 17x^2 + 16$
5. $f(x) = (x+1)^2$
6. $f(x) = (x-2)^2$
7. $f(x) = (x-1)(x+3)^2$
8. $f(x) = (x+1)(x-2)^2(x-1)$
9. $f(x) = (x-3)^2(x-2)^2$

II. Describe the end behaviors of the graph and then graph it labeling the zeros. Also label each time it crosses the x-axis with c, t, or cc.

1. $y = -3(x+1)(x-3)^2(x+2)$
2. $y = -(x-2)^2(x-1)(x+3)^2$
3. $y = -x^2(x+1)^2$
4. $y = 4(2x-3)(x-1)^2$
5. $y = 2(x-4)^2(x+2)^2(x+3)^2$
6. $y = -4(x-2)(x+2)$
7. $y = (x-2)(2x-1)(x+1)^2$
8. $y = -(x-6)^2(x-4)(x-1)^2$
9. $y = x^2 - 6x^2 + 9x$
10. $y = x^2 - 13x^2 + 36$

Classroom 2
Name: _____

Task 1: Main, Volume, and Flattening

1. Study the main shown in Figure 1. Each dot represents a particle of matter. (Consider the particles are uniformly distributed throughout each object and particles of the same size have the same mass.)

a. In the table below, show how the masses, volumes, and densities of A and B compare by writing the symbol $>$, $=$, or $<$ in the appropriate column.

b. Explain your reasoning for each answer in the last column.

Property	Relationship	Reasoning
Mass	A _____ B	
Volume	A _____ B	
Density	A _____ B	

2. Study the main in Figure 2. (Consider the particles are uniformly distributed throughout each object, and particles of the same size have the same mass.)

a. In the table below, show how the masses, volumes, and densities compare by writing the symbol $>$, $=$, or $<$ in the appropriate column.

b. Explain your reasoning for each answer in the last column.

Property	Relationship	Reasoning
Mass	A _____ B	
Volume	A _____ B	
Density	A _____ B	

3. In Figure 3, an object Y was shown. (Consider the particles are uniformly distributed throughout each object, and particles of the same size have the same mass.)

Explain your reasoning.

Property	Relationship	Reasoning
Mass	A _____ B	
Volume	A _____ B	
Density	A _____ B	

Read the equations. Put them into numbers.

Ex: one plus one equals two.

→ $1+1=2$

1. four plus two equals six.

→

2. seven plus one equals eight.

→

3. eight minus two equals six

→

4. ten minus three equals seven

→

Write **greater** or **less** 13%

Ex: 7 is **greater** than 3. 4 is **less** than 9.

1. 9 is _____ than 4.

2. 10 is _____ than 8.

3. 6 is _____ than 7.

4. five is _____ than nine.

5. four is _____ than one.

6. eight is _____ than three.

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