Station 1:

Radical Operations

Simplify the following radical equations.



1. Solve for x and y:

Rationalize each denominator and simplify each expression.

Station 2:

Factoring

Factor each of the following. Check your work by FOILing or BOXing your work.

1. 12x2 – 27
2. 2x2 + 7x + 5
3. 8x3 – 27
4. x2 – 10x + 9
5. 25x4z + 15x3z + 5x2z
6. 2y – 8 + xy – 4x

Station 3:

Solving Quadratics

Solve each equation by using the Quadratic Formula.











Solve each equation by factoring.



2. 8x2 + 7x – 1 = 0

Station 4:

Absolute Value Equations

**Solve each of the following. Check your work for extraneous solutions.**











Station 5:

Absolute Value Inequalities

**Solve each of the following. Graph your solutions of the number line provided and write your answers in both interval and set builder notation.**

1.  
2.  
3.  
4.  
5. -2|3x + 5| < 10 