**AHSGE Math Objectives**

***I-1: Apply order of operations*** (Sections 2 and 3, 11.1, 11.2)

***I-2: Add and subtract polynomials***  (11.1-11.6)

***I-3: Multiply polynomials***  (Section 10, 12.1-12.4)

***I-4: Factor polynomials***  (Section 13)

***II-1: Solve multi-step equations*** (Section 4, 5.3)

***II-2: Solve quadratic equations*** (14.1-14.5)

***II-3: Solve systems of linear equations*** (19.1-19.5)

***II-4: Solve multi-step inequalities***(6.1-6.3)

***III-1: Identify functions*** (17.4, 18.1, 18.3, 18.4, 18.6)

***III-2: Find the range of functions*** (18.1, 18.2, 18.5)

***IV-1: Find perimeter, circumference, area and volume*** (8.1-8.4, Section 9)

***IV-2: Find the distance, midpoint, slope***  (Section 15)

***V-1, 4: Graph: Linear equations; Common relations***  (Section 16, 17.1, 18.3, 18.4)

***V-2: Graph lines given certain conditions***  (16.1, 16.2, 16.4-16.7 )

***V-3: Determine solution sets of inequalities***  (Section 6)

***VI-1: Translate: Verbal or symbolic; Graph: Equations or Inequalities*** (6.4, 6.6,

6.7, 7.1, 7.4, 16.7, 17.2, 17.3)

***VII-1: Apply properties and relationships between angles***  (Section 20)

***VII-2: Apply Pythagorean Theory***  (Section 22)

***VII-3: Apply properties of similar polygons***  (Section 21)

***VII-4: Apply properties of geometric figures***  (8.3-8.5, 9.2, 11.7, 12.5, 14.6 )

***VII-5: Determine measures of central tendency*** (Section 23)

***VII-6: Determine probabilities***  (Section 24)

***VII-7: Solve problems: Direct variations***  (Section 5)

***VII-8: Solve problems: Algebraic concepts***  (Section7, 14.6, 19.6)