

NAME: _____ Score _____/10

Please **print** your name

1. The final exam in this course is a **comprehensive** exam which is worth **200** points.
2. The purpose of early college level algebra courses is to introduce the student to the use of **abstraction**, generalization, and **deductive** reasoning.
3. Simplify the expression $\frac{x^7}{x^{-2}}$.

$$\frac{x^7}{x^{-2}} = x^9$$

4. Perform the addition $3\sqrt{5} + 6\sqrt{5}$ **(NO DECIMALS!)**

$$3\sqrt{5} + 6\sqrt{5} = 9\sqrt{5}$$

5. **T** **F** If any expression is added to both sides of an equation the resulting equation is equivalent to the original equation.
6. **T** **F** If both sides of an equation are multiplied by the same expression, the resulting equation is equivalent to the original equation.
7. **T** **F** Two equations are equivalent if they have the same solution sets.
8. **T** **F** Two equations are equal if they have the same solution sets.