

Academy of Greatness & Excellence
Incoming 10th Grade- Geometry Review
2018-2019
Summer IXL.com Assignment

Variable expressions

1. **A.1** Evaluate variable expressions involving integers
2. **A.2** Evaluate variable expressions involving rational numbers
3. **A.3** Simplify variable expressions using properties
4. **A.4** Sort factors of single-variable expressions
5. **A.5** Sort factors of multi-variable expressions

Equations

1. **B.1** Solve linear equations
2. **B.2** Solve linear equations: word problems
3. **B.3** Solve equations: complete the solution
4. **B.4** Solve absolute value equations
5. **B.5** Graph solutions to absolute value equations
6. **B.6** Solve multi-variable equations

Inequalities

1. **C.1** Graph a linear inequality in one variable
2. **C.2** Write inequalities from graphs
3. **C.3** Write a linear inequality: word problems
4. **C.4** Solve linear inequalities
5. **C.5** Graph solutions to linear inequalities
6. **C.6** Solve absolute value inequalities
7. **C.7** Graph solutions to absolute value inequalities
8. **C.8** Graph a two-variable linear inequality
9. **C.9** Graph solutions to two-variable absolute value inequalities
10. **C.10** Graph solutions to quadratic inequalities
11. **C.11** Solve quadratic inequalities

Functions

1. **D.1** Domain and range
2. **D.2** Identify functions
3. **D.3** Evaluate functions
4. **D.4** Find values using function graphs
5. **D.5** Complete a table for a function graph
6. **D.6** Find the slope of a linear function
7. **D.7** Graph a linear function
8. **D.8** Write the equation of a linear function
9. **D.9** Linear functions over unit intervals
10. **D.10** Average rate of change
11. **D.11** Graph an absolute value function
12. **D.12** Domain and range of absolute value functions: graphs
13. **D.13** Domain and range of absolute value functions: equations
14. **D.14** Transformations of absolute value functions

Systems of equations

1. **E.1** Is (x, y) a solution to the system of equations?
2. **E.2** Solve a system of equations by graphing
3. **E.3** Solve a system of equations by graphing: word problems
4. **E.4** Find the number of solutions to a system of equations
5. **E.5** Classify a system of equations
6. **E.6** Solve a system of equations using substitution
7. **E.7** Solve a system of equations using substitution: word problems
8. **E.8** Solve a system of equations using elimination
9. **E.9** Solve a system of equations using elimination: word problems
10. **E.10** Solve a system of equations using any method
11. **E.11** Solve a system of equations using any method: word problems
12. **E.12** Solve a system of equations in three variables using substitution
13. **E.13** Solve a system of equations in three variables using elimination
14. **E.14** Determine the number of solutions to a system of equations in three variables
15. **E.15** Solve a system of linear and quadratic equations
16. **E.16** Solve a non-linear system of equations

Systems of inequalities

1. **F.1** Is (x, y) a solution to the system of inequalities?
2. **F.2** Solve systems of linear inequalities by graphing
3. **F.3** Solve systems of linear and absolute value inequalities by graphing
4. **F.4** Find the vertices of a solution set
5. **F.5** Linear programming