**Unit 7: Equations and Inequalities**



Use the *Check Point* to check and reflect before completing the *Test Your Understanding Quiz* for

*Unit 7: Equations and Inequalities*.

I understand how to:

|  |  |  |  |
| --- | --- | --- | --- |
| *Unit 7* Concepts | Place a checkmark in the appropriate column | | |
|  | Yes | No | Maybe |
| Determine and verify the solution to a system of linear-quadratic or quadratic-quadratic equations using technology |  |  |  |
| Determine and verify the solution to a system of linear-quadratic or quadratic-quadratic equations algebraically |  |  |  |
| Explain the meaning of points of intersection of a system of equations |  |  |  |
| Explain why a system of linear-quadratic or quadratic-quadratic equations may have zero, one, two, or an infinite number of solutions |  |  |  |
| Model a situation using a system of linear-quadratic or quadratic-quadratic equations |  |  |  |
| Relate a system of linear-quadratic equations or quadratic-quadratic equations to the context of a given problem |  |  |  |
| Solve a problem that involves a system of linear-quadratic or quadratic-quadratic equations, and explain the strategy used |  |  |  |
| Explain how test points can be used to determine the solution region that satisfies an inequality |  |  |  |
| Explain when a solid or broken line or curve should be used in the graphical solution for an inequality |  |  |  |
| Sketch the graph of a linear or quadratic inequality |  |  |  |
| Solve a problem that involves a linear or quadratic inequality in one variable |  |  |  |
| Determine the solution of a quadratic inequality using graphing, roots and test points, sign analysis, or case analysis |  |  |  |
| Represent and solve a problem that involves a quadratic inequality in two variables |  |  |  |
| Interpret the solution to a problem that involves a quadratic inequality in two variables |  |  |  |

If you have any concerns from the *Check Point*, please refer to *Enhance Your Understanding* for designated practice questions and their solutions to help you improve your skills.

Contact your teacher for assistance and clarification as needed.

You have completed *Unit 7: Equations and Inequalities*. Please continue with *Unit 8: Course Review*.

Complete the *Test Your Understanding Quiz* when you have reviewed the feedback provided by your marker for your *Unit 7 Assignments.*