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| D:\D drive stuff\online courses\m30-1\08-icons\bakerWD.gif | **Unit 2 Final Review Assignment** |

Complete the ***Final Review***assignment. Call or e-mail your teacher if you would like additional help.

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Use the *Check Point* to check and reflect before completing the *Big Game!* quiz for *Unit 2: Quadratic Functions.*

I understand how to:

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| Unit 2: Concepts | Place a checkmark in the appropriate column. **Yes No Maybe** |
| Determine the coordinates of the vertex of the quadratic function, with or without technology. |  |  |  |
| Determine the equation of the axis of symmetry, given the *x*-intercepts of the graph of a quadratic function. |  |  |  |
| Determine the *y*-coordinate of the vertex of the graph of a quadratic function given its equation and the equation of the axis of symmetry, and state whether or not it is a maximum or minimum value. |  |  |  |
| Determine the domain and range of the quadratic function. |  |  |  |
| Sketch the graph of a quadratic function. |  |  |  |
| Solve a contextual problem involving some or all of the characteristics of a quadratic function. |  |  |  |
| Determine the intercepts of the graph of the quadratic function with or without technology. |  |  |  |
| Determine the roots of a quadratic equation and verify by substitution. |  |  |  |
| Determine the roots of the quadratic equation by factoring, using the quadratic formula and using technology. |  |  |  |
| State the relationships between the roots of an equation, the zeros of the functions and the *x*-intercepts of the graph of that function. |  |  |  |
| Determine the nature of the roots of a quadratic function (how many, real or non-real). |  |  |  |
| Express a quadratic function in factored form given the *x*-intercepts of its graph or the zeros of the function. |  |  |  |
| Solve a contextual problem by modeling a situation with a quadratic function. |  |  |  |

If you have any concerns from the *Check Point*, please refer *to Strengthening and Conditioning* in the Module for designated practice questions and their solutions, to help you improve your skills.

Contact your teacher for assistance and clarification as needed.