

# Pre-Calculus: Summer Learning Packet

We want to welcome you to Pre-calculus for the 2019-2020 school year. As you enjoy some time off this summer, we also want to ensure you are exercising the math portion of your brain! Below you will find a list of topics that you must review prior to the start of the new school year. The topics are divided by weeks to help you manage your time and workload. However, if you are in need to change the dates of any of the topics you have the flexibility to complete the work in your own timeframe.

**Sincerely,**

**The Pre-Calculus Math team**

Students **MUST** complete five problems in a row correctly for all of the topics above to earn full credit. Partial credit will be awarded as described below. If you struggle on any of the problems, please reference the videos for each topic and/or look for hints found on the right hand side of your screen when attempting a problem. Please note you do not have to complete all problems in one sitting. Khan Academy will remember where you left off. Be sure to log-in every time you do additional work!!

Grading for Khan Academy for each topic:

|  |
|--|
| <b>Credit can only be awarded for any work completed after June 14th, 2018</b> |
| 0 correct: 0 points  |
| 1 correct: 2 points  |
| 2 correct: 4 points  |
| 3 correct : 6 points   |
| 4 correct: 8 points  |
| 5 correct: 10 points ( if applicable)  |

Khan Academy – YOU MUST LOG IN TO HAVE KHAN ACADEMY GIVE YOU CREDIT FOR YOUR WORK. How to Log Into Khan Academy to complete your summer work:

**If you do not have an account yet:**

1. Go to khanacademy.org
2. Click on Start Learning Now
3. Click on Sign in with Gmail
4. Create an Account with your SHELTON account
5. Type in the Search Engine Bar The topic you would like to complete or click on the link provided

**If you have an account already with your Shelton email:**

1. Go to khanacademy.org
2. Click on the log in button on the top right hand side of the screen
3. Log in with your email and password
4. Type in the Search Engine Bar the topic you would like to complete or click on the link provided

Summer Work Topics for Pre-Calculus: YOU MUST LOG IN TO HAVE KHAN ACADEMY GIVE YOU CREDIT FOR YOUR WORK☺

| Week            | Topic  | Link  | Checklist |
|-----------------|--|---|-----------|
| <b>Week #1:</b> | Factor Perfect Squares                                 | <a href="http://tinyurl.com/zv9y8lb">http://tinyurl.com/zv9y8lb</a>     |           |
| <b>Week #2</b>  | Factoring Quadratics                                   | <a href="http://tinyurl.com/pziz9eu">http://tinyurl.com/pziz9eu</a>     |           |
| <b>Week #3</b>  | Factor Polynomials:<br>Quadratics Advanced             | <a href="http://tinyurl.com/qxg9ccq">http://tinyurl.com/qxg9ccq</a>     |           |
| <b>Week #4</b>  | Find Zeros of<br>Polynomials                           | <a href="http://tinyurl.com/jfoafpn">http://tinyurl.com/jfoafpn</a>     |           |
| <b>Week #5</b>  | End Behavior of<br>Polynomials: Even /<br>Odd Function | <a href="http://tinyurl.com/z2v2rlo">http://tinyurl.com/z2v2rlo</a>     |           |
| <b>Week #6</b>  | Distance Formula                                       | <a href="http://tinyurl.com/pmebbx3">http://tinyurl.com/pmebbx3</a>     |           |
| <b>Week #7</b>  | Special Right Triangles                                | <a href="http://tinyurl.com/mncy46w">http://tinyurl.com/mncy46w</a>     |           |
| <b>Week #8</b>  | Simplifying Square<br>roots                            | <a href="https://tinyurl.com/yah8ju2p">https://tinyurl.com/yah8ju2p</a> |           |
| <b>Week #9</b>  | Quadratic Formula:<br>Solving Quadratic<br>Equations   | <a href="http://tinyurl.com/pmze7xj">http://tinyurl.com/pmze7xj</a>     |           |
| <b>Week #10</b> | Midpoint Formula                                       | <a href="http://tinyurl.com/mdmjc6h">http://tinyurl.com/mdmjc6h</a>     |           |