

**MATH ANALYSIS 2022 – 2023**

**UNIT 4 – Chapter 6: Additional Topics in Trigonometry,  
Chapter 7: Linear Systems & Matrices,  
& Chapter 10: Analytic Geometry in Three Dimensions**

| MONDAY   | TUESDAY  | WEDNESDAY  | THURSDAY  | FRIDAY |
|--|--|------------|---|--------|
| January 9<br><b>Welcome Back Warm-up</b><br><b>HW:</b> Copy the 6.1 Notes  | Jan 10<br><b>6.1</b> Law of Sines & <b>6.2</b> Law of Cosines<br><b>HW 6.1a (Pg. 412)</b> #9, 17, 23, 25, 29, 31, 35, 39, 41<br><b>&amp; 6.2a (Pg. 419)</b> #5, 9, 11, 13, 19, 31, 33, 35  | Jan 11     | Jan 12<br><b>6.1–6.2</b> Applications of Law of Sines & Cosines<br><b>HW 6.1b (Pg. 412)</b> #44, 46, 48,<br><b>&amp; 6.2b (Pg. 419)</b> #45, 46, 49; & Stoplight Reflection | Jan 13 |
| Jan 16<br><br><p style="text-align: center;"><b>No School</b></p> <p style="text-align: right;">MLK Jr. Day</p>                  | Jan 17<br><br><p style="text-align: center;"><b>Quiz on 6.1–6.2</b><br/>&amp; Notebook Check</p> <p style="text-align: center;">-----</p> <b>7.1 &amp; 7.2</b> Solving Systems of Equations<br><b>HW 7.1 (Pg. 484)</b> #19, 33, 45, 51, 65; &<br><b>HW 7.2 (Pg. 493)</b> #13, 19, 21, 39, 43, 45, 77 | Jan 18     | Jan 19<br><b>7.3</b> Multivariable Linear Systems<br><b>HW 7.3 (Pg. 507)</b><br>#11, 15, 21, 23, 33, 49, 51, 53, 61, 79, 84, 89   | Jan 20 |
| Jan 23<br><b>7.4</b> Matrices & Systems of Equations<br><b>HW 7.4a (Pg. 521)</b><br>#9, 11, 13, 17, 19, 21, 23, 26, 27, 29, 37   | Jan 24<br><b>7.4</b> Matrices & Systems of Equations<br><b>HW 7.4b (Pg. 521)</b><br>#39, 41, 43, 45, 47, 49, 51, 53, 55, 61, 67, 71, 96;<br>& Stoplight Reflection   | Jan 25     | Jan 26<br><b>7.5</b> Operations with Matrices<br><b>HW 7.5a (Pg. 536)</b><br>#9, 11, 13, 17, 19, 21, 26, 28, 30, 33   | Jan 27 |
| Jan 30<br><br><p style="text-align: center;"><b>Quiz on 7.3–7.4</b><br/>&amp; Notebook Check</p>                                 | Jan 31<br><b>7.5</b> Operations with Matrices<br><b>HW 7.5b (Pg. 536)</b><br>#37, 39, 44, 45, 50, 53, 55, 57, 73, 77, 79, 94, 101, 103, 105, 107, 111  | February 1 | Feb 2<br><b>7.6</b> Inverse of a Square Matrix<br><b>HW 7.6 (Pg. 547)</b><br>#5, 9, 11, 13, 19, 23, 29, 33, 37, 39, 41, 47, 55, 57, 63;<br>& Stoplight Reflection           | Feb 3  |
| Feb 6<br><br><p style="text-align: center;"><b>Quiz on 7.5–7.6</b><br/>&amp; Notebook Check</p>                                  | Feb 7<br><b>6.3</b> Vectors in the Plane<br><b>HW 6.3 (Pg. 431)</b><br>#17, 23, 24, 25, 27, 31, 33, 35, 39, 45, 47, 56, 57, 59, 63, 65, 67, 77, 81, 83   | Feb 8      | Feb 9<br><b>10.1</b> Three-Dimensional Coordinate System<br><b>HW 10.1 (Pg. 726)</b><br>#9, 11, 13, 15, 19, 21, 23, 31, 39, 41, 47, 48, 52, 53                              | Feb 10 |
| Feb 13<br><b>6.4</b> Vectors & Dot Products<br><b>HW 6.4a (Pg. 442)</b><br>#7, 9, 12, 13, 17, 19, 23, 27, 31, 39, 45, 47, 49, 65 | Feb 14<br><b>10.2</b> Vectors in Space<br><b>HW 10.2 (Pg. 734)</b><br>#11, 13, 17, 19, 23, 29, 31, 37, 39, 41, 43, 45, 47, 49, 51, 52, 55, 59, 61, 65  | Feb 15     | Feb 16<br><br><p style="text-align: center;"><b>Quiz on 6.3–6.4 &amp; 10.1–10.2</b><br/>&amp; Notebook Check</p>  | Feb 17 |
| Feb 20   | Feb 21   | Feb 22     | Feb 23  | Feb 24 |
| <p style="font-size: 1.2em;"><b>No School – Winter Break</b></p>   |  |            |   |        |
| Feb 27<br><b>7.7</b> Determinant of a Square Matrix<br><b>HW 7.7 (Pg. 554)</b><br>#5, 7, 9, 11, 19, 21, 29, 31, 41, 445, 57      | Feb 28<br><b>10.3</b> Cross Product of Two Vectors<br><b>HW 10.3 (Pg. 741)</b><br>#7, 9, 15, 21, 33, 35, 37, 39, 41, 45, 47, 51, 53, 55, 57, 59, 63  | March 1    | Mar 2<br><b>7.8</b> Applications of Matrices & Determinants<br><b>HW 7.8 (Pg. 566)</b><br>#3, 5, 9, 11, 13, 24, 25, 27, 29, 35, 37, 38, 40;<br>& Stoplight Reflection       | Mar 3  |
| Mar 6<br><br><i>Unit Review</i>  | Mar 7<br><br><i>Unit Review</i>  | Mar 8      | Mar 9<br><br><p style="text-align: center;"><b>Unit 4 Test</b><br/>&amp; Notebook Check</p>   | Mar 10 |