

# Math 1352

## Spring 2008

Monday	Tuesday	Wednesday	Thursday	Friday
<i>January 7</i>	<i>January 8</i>	<i>January 9</i> <div style="border: 1px solid black; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">Exam 0</div> <div style="border: 1px solid black; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">CLASSES BEGIN</div>	<i>January 10</i>	<i>January 11</i> 6.1: area between curves, area using vertical strips, area using horizontal strips
<i>January 14</i> 6.2: method of cross sections, method of disks and washers, method of cylindrical shells	<i>January 15</i>	<i>January 16</i> 6.2: method of cross sections, method of disks and washers, method of cylindrical shells <div style="border: 1px solid red; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">WW #00</div>	<i>January 17</i>	<i>January 18</i> 6.3: polar coordinates, polar graphs, intersection of polar curves, area for polar coordinates <div style="border: 1px solid blue; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">HW #01</div>
<i>January 21</i> <i>Martin Luther King, Jr.</i>	<i>January 22</i>	<i>January 23</i> 6.3: polar coordinates, polar graphs, intersection of polar curves, area for polar coordinates <div style="border: 1px solid red; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">WW #01</div>	<i>January 24</i>	<i>January 25</i> 6.4: arc length of a curve, area of a surface of rotation, polar arc length and surface area
<i>January 28</i> 6.4: arc length of a curve, area of a surface of rotation, polar arc length and surface area <div style="border: 1px solid blue; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">HW #02</div>	<i>January 29</i>	<i>January 30</i> 6.5: work, fluid pressure and force, centroids and moments in the plane, theorem of Pappus <div style="border: 1px solid red; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">WW #02</div>	<i>January 31</i>	<i>February 1</i> 6.5: work, fluid pressure and force, centroids and moments in the plane, theorem of Pappus
<i>February 4</i> 7.1: review of substitution, use of tables <div style="border: 1px solid blue; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">HW #03</div>	<i>February 5</i>	<i>February 6</i> 7.1/7.2: review of substitution; integration by parts <div style="border: 1px solid red; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">WW #03</div>	<i>February 7</i> <div style="border: 1px solid black; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">Review for Exam 1 7:00 pm</div>	<i>February 8</i> <div style="border: 1px solid black; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">Exam 1</div>
<i>February 11</i> 7.2: integration by parts, repeated integration by parts, definite integration by parts	<i>February 12</i> <i>Lincoln's Birthday</i>	<i>February 13</i> 7.3: trigonometric substitution: powers of sine and cosine; powers of secant and tangent, quadratic-form integrals <div style="border: 1px solid blue; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">HW #04</div>	<i>February 14</i> <i>Valentine's Day</i>	<i>February 15</i> 7.3/7.4: trigonometric substitution; partial fraction decompositions <div style="border: 1px solid red; padding: 2px; text-align: center; margin: 5px auto; width: 100px;">WW #04</div>

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<p style="text-align: center;"><b>February 18</b></p> <p style="text-align: center;"><i>President's Day</i></p> <p>7.4: partial fraction decompositions, Heaviside method, integrating rational functions, rational functions of sine and cosine</p>	<p style="text-align: center;"><b>February 19</b></p>	<p style="text-align: center;"><b>February 20</b></p> <p>7.5: strategies for integration</p> <div style="border: 1px solid black; padding: 2px; text-align: center; margin-top: 10px;">HW #05</div>	<p style="text-align: center;"><b>February 21</b></p>	<p style="text-align: center;"><b>February 22</b></p> <p>7.6: first-order linear differential equations, applications of first-order equations</p> <p style="text-align: center;"><i>Washington's Birthday</i></p> <div style="border: 1px solid red; padding: 2px; text-align: center; margin-top: 10px;">WW #05</div>
<p style="text-align: center;"><b>February 25</b></p> <p>7.7: improper integrals with infinite limits of integration, improper integrals with unbounded integrands</p>	<p style="text-align: center;"><b>February 26</b></p>	<p style="text-align: center;"><b>February 27</b></p> <p>7.7/7.8: improper integrals; hyperbolic functions</p> <div style="border: 1px solid black; padding: 2px; text-align: center; margin-top: 10px;">HW #06</div>	<p style="text-align: center;"><b>February 28</b></p>	<p style="text-align: center;"><b>February 29</b></p> <p>7.8: hyperbolic functions, derivatives and integrals of hyperbolic functions, inverse hyperbolic functions</p> <div style="border: 1px solid red; padding: 2px; text-align: center; margin-top: 10px;">WW #06</div>
<p style="text-align: center;"><b>March 3</b></p> <p>8.1: sequences, limits of sequences, bounded sequences, monotonic sequences, sandwich (squeeze) theorem for sequences</p>	<p style="text-align: center;"><b>March 4</b></p>	<p style="text-align: center;"><b>March 5</b></p> <p>8.1/8.2: sequences; definition of infinite series</p> <div style="border: 1px solid black; padding: 2px; text-align: center; margin-top: 10px;">MID-SEMESTER GRADES DUE</div> <div style="border: 1px solid black; padding: 2px; text-align: center; margin-top: 2px;">HW #07</div>	<p style="text-align: center;"><b>March 6</b></p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;">Review for Exam 2 7:00 pm</div>	<p style="text-align: center;"><b>March 7</b></p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px; color: red; font-weight: bold;">Exam 2</div>
<p style="text-align: center;"><b>March 10</b></p> <p>8.2: definition of infinite series, general properties, geometric series, applications of the geometric series</p> <div style="border: 1px solid red; padding: 2px; text-align: center; margin-top: 10px;">WW #07</div>	<p style="text-align: center;"><b>March 11</b></p>	<p style="text-align: center;"><b>March 12</b></p> <p>8.3: divergence test, series of non-negative numbers, integral test, p-series</p> <div style="border: 1px solid black; padding: 2px; text-align: center; margin-top: 10px;">LAST DAY TO DROP A CLASS</div>	<p style="text-align: center;"><b>March 13</b></p>	<p style="text-align: center;"><b>March 14</b></p> <p>8.3/8.4 convergence tests</p> <div style="border: 1px solid black; padding: 2px; text-align: center; margin-top: 10px;">HW #08</div>
<p style="text-align: center;"><b>March 17</b></p> <p style="text-align: center;"><i>St. Patrick's</i></p>	<p style="text-align: center;"><b>March 18</b></p>	<p style="text-align: center;"><b>March 19</b></p>	<p style="text-align: center;"><b>March 20</b></p>	<p style="text-align: center;"><b>March 21</b></p>
Spring Break				
<p style="text-align: center;"><b>March 24</b></p> <p>Day of No Classes</p>	<p style="text-align: center;"><b>March 25</b></p>	<p style="text-align: center;"><b>March 26</b></p> <p>8.4: direct comparison test, limit comparison test</p> <div style="border: 1px solid red; padding: 2px; text-align: center; margin-top: 10px;">WW #08</div>	<p style="text-align: center;"><b>March 27</b></p>	<p style="text-align: center;"><b>March 28</b></p> <p>8.5: ratio test, root test</p>

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<p style="text-align: center;"><b>March 31</b></p> <p>8.5/8.6: convergence tests</p>	<p style="text-align: center;"><b>April 1</b></p> <p style="text-align: center;"><i>April Fools Day</i></p>	<p style="text-align: center;"><b>April 2</b></p> <p>8.6: alternating series test, error estimates for alternating series, absolute and conditional convergence, summary of tests</p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">HW #09</p>	<p style="text-align: center;"><b>April 3</b></p>	<p style="text-align: center;"><b>April 4</b></p> <p>8.7: convergence of a power series, term-by-term differentiation and integration of a power series</p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">WW #09</p>
<p style="text-align: center;"><b>April 7</b></p> <p>8.7/8.8: power series</p>	<p style="text-align: center;"><b>April 8</b></p>	<p style="text-align: center;"><b>April 9</b></p> <p>8.8: Taylor and Maclaurin polynomials, Taylor's theorem, Taylor and Maclaurin series, operations on Taylor and Maclaurin series</p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">HW #10</p>	<p style="text-align: center;"><b>April 10</b></p>	<p style="text-align: center;"><b>April 11</b></p> <p>9.1: introduction to vectors, vectors in component form, standard representations in the plane</p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">WW #10</p>
<p style="text-align: center;"><b>April 14</b></p> <p>9.2: coordinates in space, graphs in space, spheres and cylinders, vectors in space</p>	<p style="text-align: center;"><b>April 15</b></p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">Review for Exam 3 7:00 pm</p>	<p style="text-align: center;"><b>April 16</b></p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">Exam 3</p>	<p style="text-align: center;"><b>April 17</b></p>	<p style="text-align: center;"><b>April 18</b></p> <p>9.3: definition and basic properties of dot product, angle between vectors, direction cosines, projections</p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">HW #11</p>
<p style="text-align: center;"><b>April 21</b></p> <p>9.4: definition and basic properties of the cross product, geometric interpretation of the cross product, applications of the cross product: area and torque, triple scalar product</p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">WW #11</p>	<p style="text-align: center;"><b>April 22</b></p>	<p style="text-align: center;"><b>April 23</b></p> <p>9.5: parametric equations, parametrizing a curve, lines in space</p>	<p style="text-align: center;"><b>April 24</b></p>	<p style="text-align: center;"><b>April 25</b></p> <p>9.6: forms for the equation of a plane in space, vector methods for measuring distances in space</p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">HW #12</p>
<p style="text-align: center;"><b>April 28</b></p> <p>9.7: methods for graphing quadric surfaces; a catalog of quadric surfaces</p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">WW #12</p>	<p style="text-align: center;"><b>April 29</b></p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">CLASSES END</p>	<p style="text-align: center;"><b>April 30</b></p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">INDIVIDUAL STUDY DAY</p>	<p style="text-align: center;"><b>May 1</b></p>	<p style="text-align: center;"><b>May 2</b></p> <p style="text-align: center; border: 1px solid black; background-color: #e0e0e0;">Departmental Final Exam 10:30 - 1:00</p>
<p style="text-align: center;"><b>May 5</b></p> <p style="text-align: center;"><i>Cinco de Mayo</i></p>	<p style="text-align: center;"><b>May 6</b></p>	<p style="text-align: center;"><b>May 7</b></p>	<p style="text-align: center;"><b>May 8</b></p>	<p style="text-align: center;"><b>May 9</b></p>