

Note: Final Exam is Monday of finals week.

. Graph the region and set up the integral and evaluate. The indicated numbers are problems from the final exam review guide.

1. The area bounded by the curves $y = x^2$, $y = x^4$ and to the right of the y -axis. *num60*
2. The area bounded by the curves $y = 2 - x$ and $y = x^2$. *num61*
3. The area bounded by the curves $y = x^4$ and $y = 8x$. *num62*
4. Find the volume of the solid generated by revolving about the x -axis the region bounded by the curves $y = x^{3/2}$, $x = 4$ and the x -axis. *num63*
5. Find the volume of the solid generated by revolving about the x -axis the region bounded by the curves $y^2 = 4x$ and $y = x^2$. *num64*
6. The volume of the region bounded by the graphs of $y = x^2$, $y = 4$, and the y -axis revolved about.
 - (a) the y -axis
 - (b) $y = 4$*num65*
7. The volume of the solid generated by revolving about the y -axis the region bounded by the graphs of $y = x + 4/x$, $x = 3$, $x = 1$ and the x -axis. *num66*
8. Find the area bounded by the curves $y = x^2 + 1$ and $y = 2x + 1$.
9. The volume of the solid generated by revolving about the x -axis the region bounded by the graphs of $y = x^3$, $x = 2$, and the x -axis.
10. The volume of the solid generated by revolving about the x -axis the region bounded by the graphs of $y = x^4$, $x = 2$, and the x -axis.