Quizzes since exam 3: MAT 1575 Prof Halleck fall 2018

Solutions to these problems can be turned in for an extra 10% on the day of your final. Also, one of the problems from section 7.4 will appear on the final for 5 extra points.

11/13 8.6 Power Series (p. 452 – 462) 11/15 8.8 Taylor Series (p. 477 – 486)



11/27 5.3 Riemann Sums (p. 210 – 225) 11/29 7.1 Areas Between Two Curves (p. 346 – 350)



**No picture no credit:** draw a sample vertical rectangle used in the Riemann sum.

c. y=0, $y=\sqrt{x}$, and y=x-2

**No picture no credit:** draw a sample horizontal rectangle used in the Riemann sum.

12/4 7.2 Vol by Cross-Sect, Disk/Washer Methods p.353–358



*x*-axis

**No picture no credit:** draw sample vertical rectangle that becomes disk or washer when rotated.

12/6 7.3 The Shell Method (p. 461 – 366)



*y*-axis

*y*-axis

**No picture no credit:** draw a sample vertical rectangle that becomes a shell when rotated.

12/11 7.4 Arc Length and Surface Area (p. 369 – 376)

find the arc length of the function on the given interval. **No picture no credit!**

 

Find the surface area of the solid formed by revolving a function y =f(x) over an interval about the *x*-axis:

1. y = 2x on [0, 1] 31. y = x3 on [0, 1] 33. $y=\sqrt{1-x^{2}}$ on [-1, 1]

**No picture no credit: draw the portion of the function that is revolved to get the solid.**