

**Mat 115 Worksheet 8 Answers**  
**Thursday, Oct 26 2017**

1.  $7\pi/30$
2. (a)  $\pi/2$ , (b)  $\pi/5$ , (c)  $9\pi$
3.  $\pi r^2 h/3$
4.  $b = 1$
5.  $8\pi/5$
6. (a)  $(85\sqrt{85} - 8)/243$ , (b)  $(80\sqrt{10} - 13\sqrt{13})/27$ , (c)  $17/6$
7. (a)  $-e^{2x}(x/2 + 1/4) + C$ , (b)  $-\frac{1}{3}x \cos 3x + \frac{1}{9} \sin 3x + C$ , (c)  $(2e^3 + 1)/9$