Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 June 28**	

Standard: This student is able to...	Mark:
C07: WashShell. Use the washer or cylindrical shell method to express a volume of revolution as a definite integral.	
4/4 ⋆ reattempt due on:	

Find a definite integral equal to the volume of the solid obtained by rotating the region bounded by $y = x$, $y = 2x$, $y = 2$ around the y-axis.

Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 June 28**	

Standard: This student is able to...	Mark:
C08: Work. Express the work done in a system as a definite integral.	
3/4 ⋆ reattempt due on:	

As a worker lifted a leaky sandbag from the ground, it lost sand weight at a constant rate. Assuming it weighed 20 pounds on the ground, and weighed 14 pounds after being lifted 2 feet, what work was required to lift the sandbag 2 feet? (Do not solve your integral.)

Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 June 28**	

Standard: This student is able to...	Mark:
S07: WorkDiff. Use the work differential to express the work done in pumping a tank of liquid as a definite integral.	
3/3 ⋆ reattempt due on:	

Assume salt water weighs $10kN/m^3$. Find an expression in terms of y for the work differential dW required to pump a cross-section of water at height y from a circular cylindrical tank with diameter length 4 meters and height 7 meters. Then give a definite integral equal to the work required to pump this tank if it was completely filled with salt water. (Do not solve your integral.)

Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 June 28**	

Standard: This student is able to...	Mark:
C09: Param. Parametrize planar curves and sketch parametrized curves.	
1/4 ⋆ reattempt due on:	

Parametrize the curve $x^2+(y-4)^2=9$ starting at the point $(7,0)$ and rotating around the circle exactly once counter-clockwise.