Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 June 26**	

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.	
2/4 ⋆ reattempt due on:	

Find a definite integral equal to the volume of the solid obtained by rotating the region bounded by $y = x^2 - 2x + 1$ and $y = x - 1$ around the axis $x = 1$.

Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 June 26**	

Standard: This student is able to...	Mark:
C08: Work. Express the work done in a system as a definite integral.	
1/4 ⋆ reattempt due on:	

Find a definite integral equal to the work required to pull up 25 meters of cable if it weighs 100 newtons and is fully extended downward into a hole.

Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 June 26**	

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.	
1/3 ⋆ 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 pyramid-shaped tank with its tip pointing downwards, with a total height of 4 feet, and with a square lid with side length 8 feet. Then give a definite integral equal to the work required to pump this tank if it filled 3 feet deep with salt water.