Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 June 29**	

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

A 100 pound wrecking ball hanging from a 20 foot, 40 pound cable was hoisted up from a crane. Give a definite integral equal to the work required to pull up the ball and cable. (Do not solve your integral.)

Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 June 29**	

Standard: This student is able to...	Mark:
C09: Param. Parametrize planar curves and sketch parametrized curves.	
2/4 ⋆ reattempt due on:	

Parametrize the line segment beginning at the point $(3,-4)$ and ending at the point $(-1,-1)$.

Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 June 29**	

Standard: This student is able to...	Mark:
S09: PolarAppl. Parametrize a curve to find arclengths, surface areas, and slopes.	
1/3 ⋆ reattempt due on:	

The arclength of a curve parametrized by x, y in terms of t from $a \leq t \leq b$ is given by $\int_a^b \sqrt{(\frac{dx}{dt})^2 + (\frac{dy}{dt})^2}\, dt$. Give a definite integral equal to the length of the arc along the curve $y = x^3$ from $(-1, -1)$ to $(2, 8)$.