Presentation #158
Review Strategies for AP Calculus
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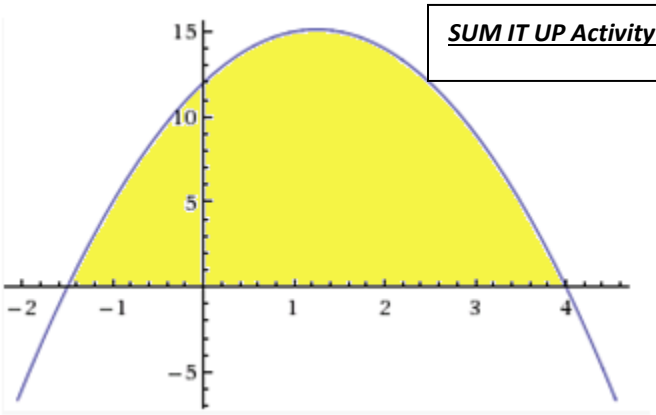
SUM IT UP Activity with Area and Volume

1)



$f(x) = -(2x^2 - 5x - 12)$

a) Find the area of the region bounded by f(x) and the x axis. A=_____

b) Find the volume by cross sections of equilateral triangles perpendicular to the x axis.

V=_____

c) Find the volume of the region rotated about the x axis. V=_____

d) Find the volume of the region rotated about y=-2 V=_____

Total_____

QR Review Name_____

Answer Sheet: Show your work!

Number	Work/Explanation	Answer

1. If $y = x^2 e^x$, then $\frac{dy}{dx} =$

(A) $2xe^x$ (B) $x(x+2e^x)$ (C) $xe^x(x+2)$

(D) $2x+e^x$ (E) $2x+e$

Answer Key—Read Straight across to be in correct order

#1) C	#7) D	#10) C	#2) D
	#8) B	#5) A	#3) A
#9) E	#4) E	#6) D	

I use http://zxing.appspot.com/generator to create my codes.