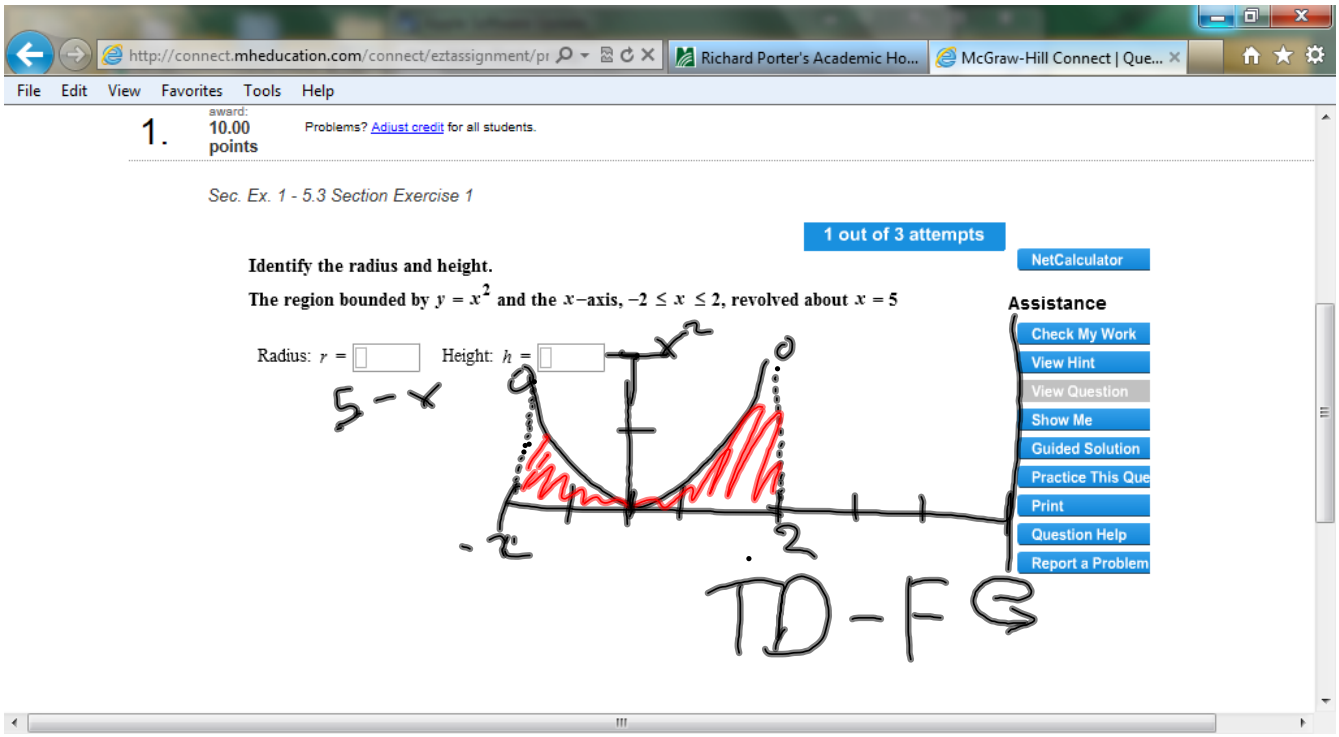
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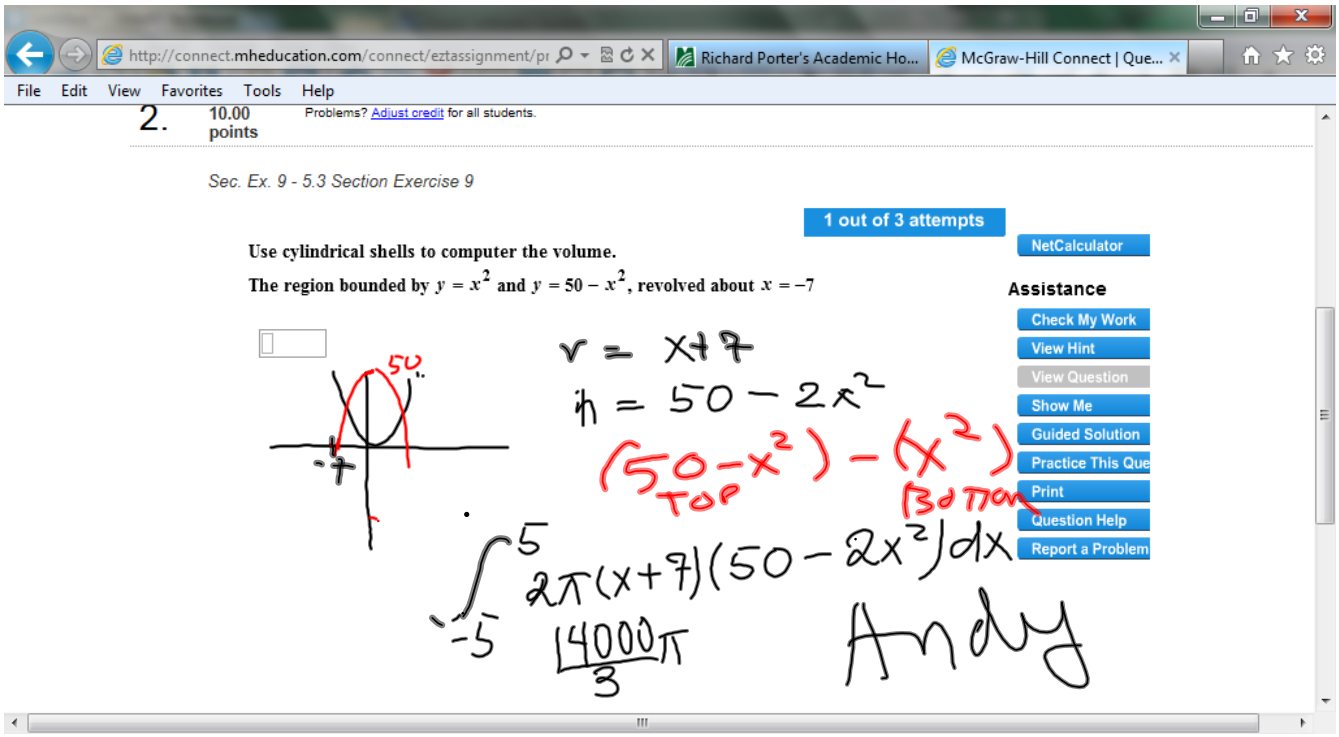
File Edit View Favorites Tools Help
1.
award:
10.00
points
Problems? Adjust credit for all students.
Sec. Ex. 1 - 5.3 Section Exercise 1
1 out of 3 attempts
NetCalculator
Identify the radius and height.
The region bounded by $y = x^2$ and the x–axis, $-2 \le x \le 2$, revolved about $x = 5$
Assistance
Check My Work
View Hint
View Question
Show Me
Guided Solution
Practice This Que
Print
Question Help
Report a Problem
Radius: r =
Height: h =
5 - x
-2
2
TD - FG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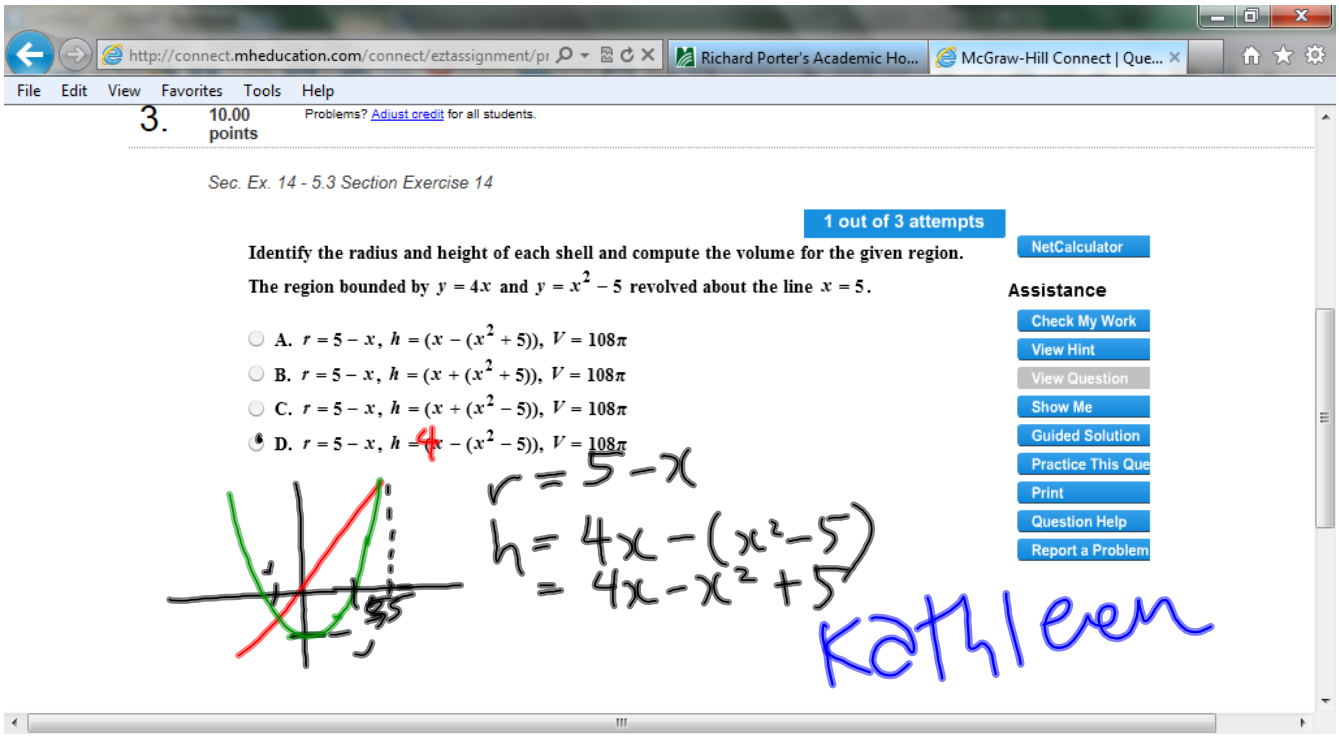
2. 10.00 points
Problems? Adjust credit for all students.
Sec. Ex. 9 - 5.3 Section Exercise 9
1 out of 3 attempts
NetCalculator
Use cylindrical shells to computer the volume.
The region bounded by $y = x^2$ and $y = 50 - x^2$, revolved about $x = -7$
Assistance
Check My Work
View Hint
View Question
Show Me
Guided Solution
Practice This Que
Print
Question Help
Report a Problem
50
-7
v = x+7
h = 50 − 2x²
(50−x²) − (x²)
TOP
BOTTOM
$\int_{-5}^{5} 2\pi(x+7)(50-2x^2)\,dx$
14000π/3
Andy


http://connect.mheducation.com/connect/eztassignment/pr
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3. 10.00 points
Problems? Adjust credit for all students.
Sec. Ex. 14 - 5.3 Section Exercise 14
1 out of 3 attempts
Identify the radius and height of each shell and compute the volume for the given region.
The region bounded by $y = 4x$ and $y = x^2 - 5$ revolved about the line $x = 5$.
A. $r = 5 - x$, $h = (x - (x^2 + 5))$, $V = 108\pi$
B. $r = 5 - x$, $h = (x + (x^2 + 5))$, $V = 108\pi$
C. $r = 5 - x$, $h = (x + (x^2 - 5))$, $V = 108\pi$
D. $r = 5 - x$, $h = (4x - (x^2 - 5))$, $V = 108\pi$
NetCalculator
Assistance
Check My Work
View Hint
View Question
Show Me
Guided Solution
Practice This Que
Print
Question Help
Report a Problem
r = 5 - x
h = 4x - (x² - 5)
= 4x - x² + 5
Kathleen

View Favorites Tools Help

4. 10.00 points Problems? Adjust credit for all students.

Sec. Ex. 15 - 5.3 Section Exercise 15

1 out of 3 attempts

NetCalculator

Use cylindrical shells to compute the volume.

The region bounded by $x = (y-1)^2$ and $x = 9$ revolved about $y = 6$

Assistance

Check My Work
View Hint
View Question
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Guided Solution
Practice This Que
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Question Help
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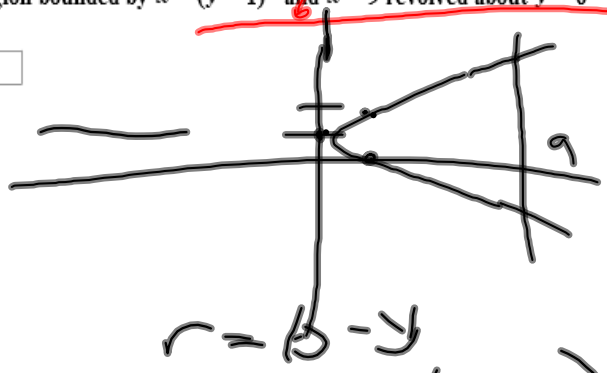


$r = 6 - y$

$h = 9 - (y-1)^2$

$$\int_2^4 2\pi(6-y)\left[9-(y-1)^2\right]dy$$

$x = 9 = (y-1)^2$

C.L.

$\pm 3 = y - 1$

$1 \pm 3 = y$

Horse

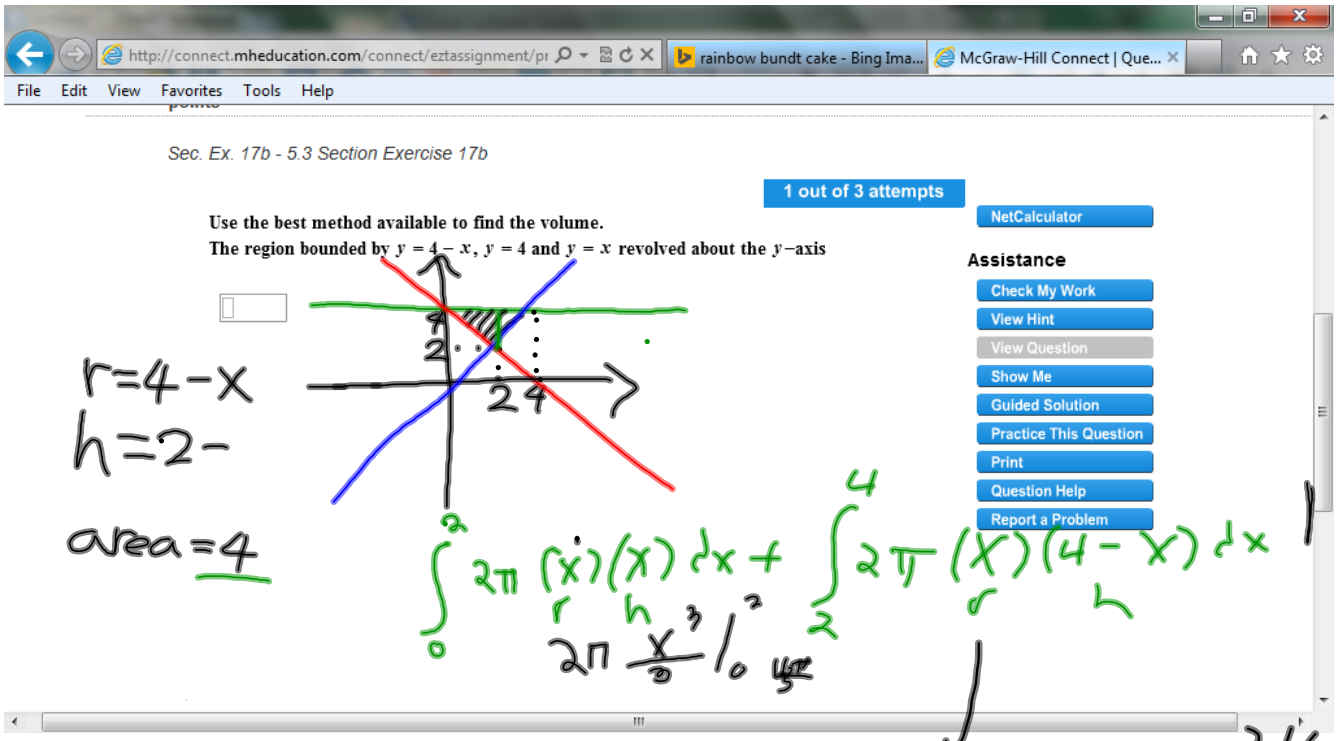
$y_1 = 2(6-x)(9-(x-1)^2)$

Calc 7: $\int f(x)\,dx$

Lower: -2

Upper: 4

$\int f(x)\,dx = 360$



$$= \frac{16\pi}{3} + 64\pi - \frac{128\pi}{3} - 16\pi$$

$$= 16\pi$$

Jun Lim $+\frac{16}{3}\pi$

1 out of 3 attempts

Use the best method available to find the volume.

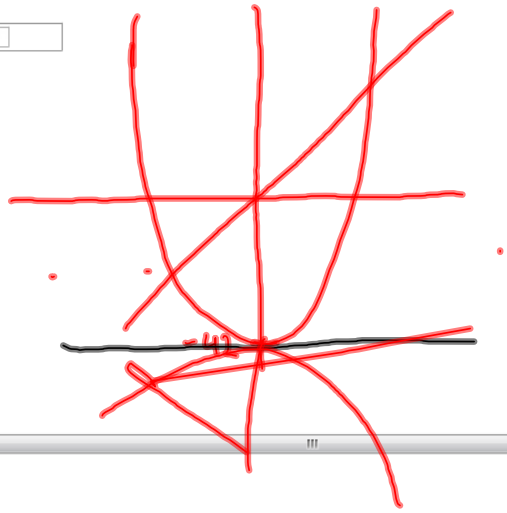
The region bounded by $y = x$ and $y = x^2 - 42$ revolved about $y = -42$.

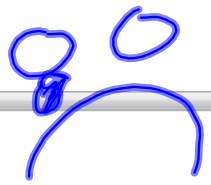
$V =$

NetCalculator

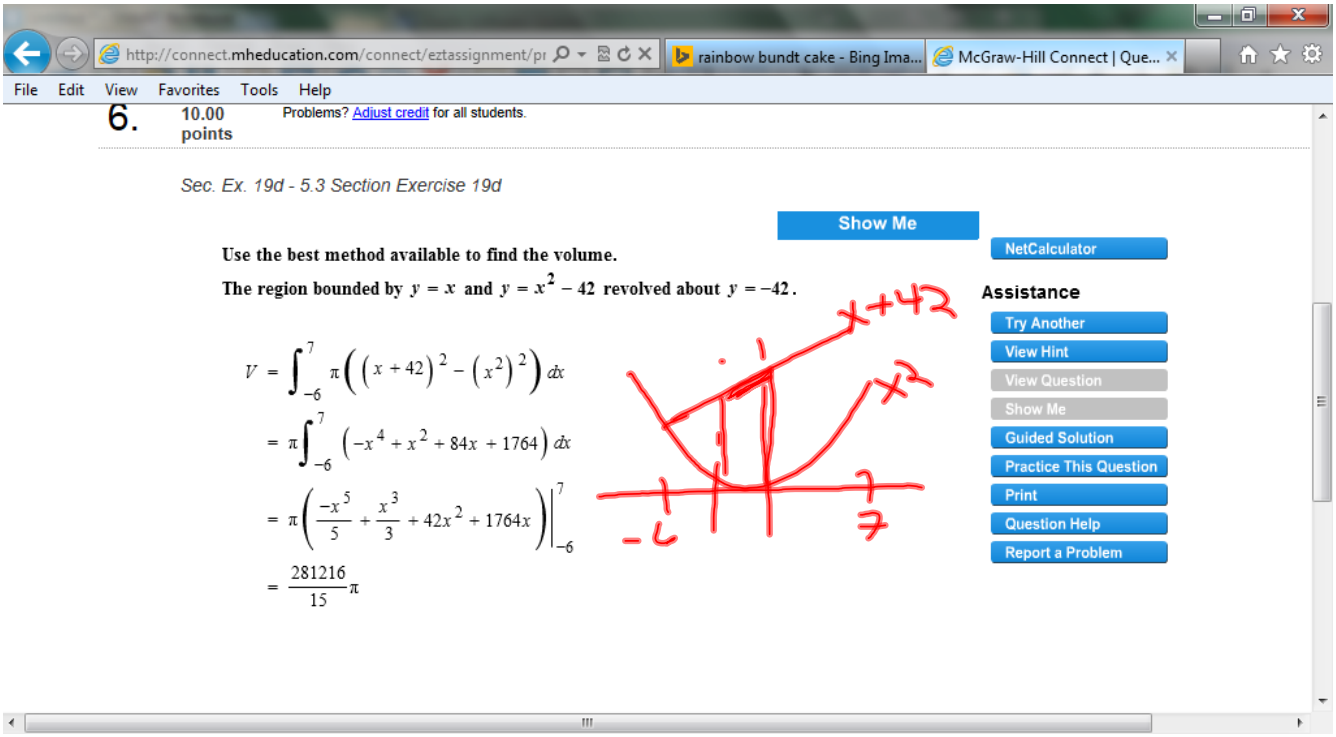
Assistance

Check My Work
View Hint
View Question
Show Me
Guided Solution
Practice This Question
Print
Question Help
Report a Problem





JMG



$$V = \int_{-6}^{7} \pi\left(\left(x+42\right)^2 - \left(x^2\right)^2\right) dx$$

$$= \pi\int_{-6}^{7} \left(-x^4 + x^2 + 84x + 1764\right) dx$$

$$= \pi\left(\frac{-x^5}{5} + \frac{x^3}{3} + 42x^2 + 1764x\right)\Big|_{-6}^{7}$$

$$= \frac{281216}{15}\pi$$