

UBII 7.1 (3909182)

Current Score: 0/17

Question	1	2	3	4	5	6	7	8	Total
Points	0/2	0/2	0/2	0/2	0/2	0/2	0/3	0/2	

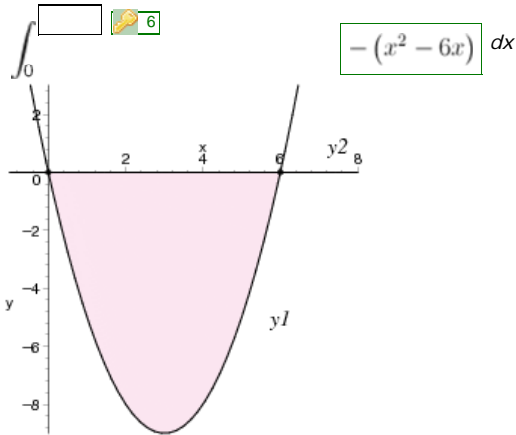
1. 0/2 points

LarCalc9 7.1.001. [1197043]

Set up the definite integral that gives the area of the region.

$$y_1 = x^2 - 6x$$

$$y_2 = 0$$



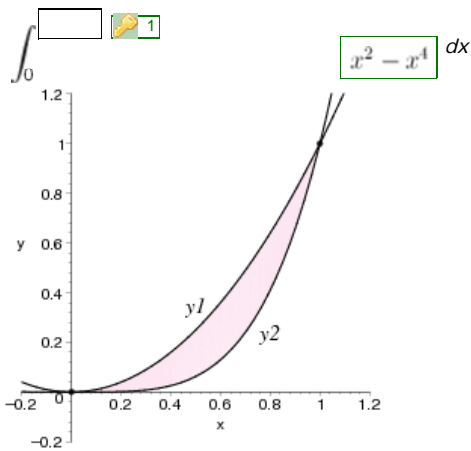
2. 0/2 points

LarCalc9 7.1.004. [1197286]

Set up the definite integral that gives the area of the region.

$$y_1 = x^2$$

$$y_2 = x^4$$



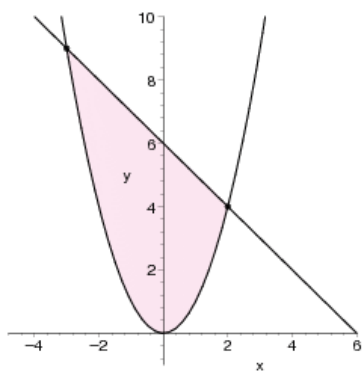


3. 0/2 points

LarCalc9 7.1.018. [1101338]

Consider the following.

$$y = x^2$$

$$y = 6 - x$$

(a) Find the area of the region by integrating with respect to  $x$ .  125/6(b) Find the area of the region by integrating with respect to  $y$ .  125/6

4. 0/2 points

LarCalc9 7.1.019.MI. [1241166]

Consider the following algebraic functions.


$$y = x^2 - 9$$

$$y = -x + 5$$


$$x = 0$$

$$x = 2$$

Sketch the region bounded by the graphs of the functions. (Use solid lines for the boundaries.)

 parabola:  $y=x^2-9$ ; region:  $y>=x^2-9$ ; line:  $y=-x+5$ ; region:  $y<=-x+5$ ; region:  $x>=0$ ; line:  $x=2$ ; region:  $x<=2$

Find the area of the region.

 70/3

5. 0/2 points

LarCalc9 7.1.028.MI. [1237027]

Consider the following algebraic functions.

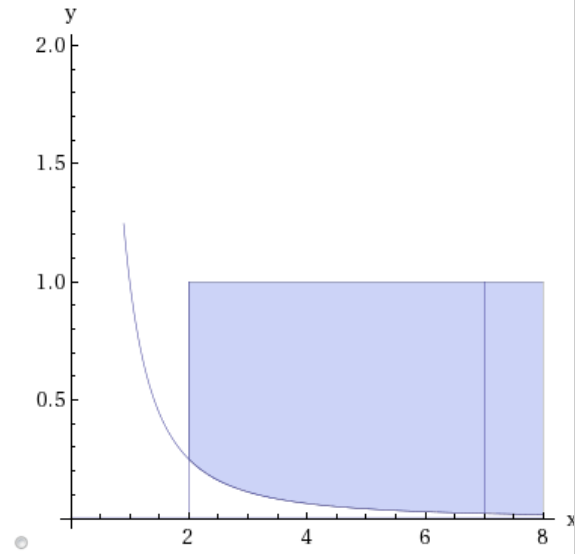
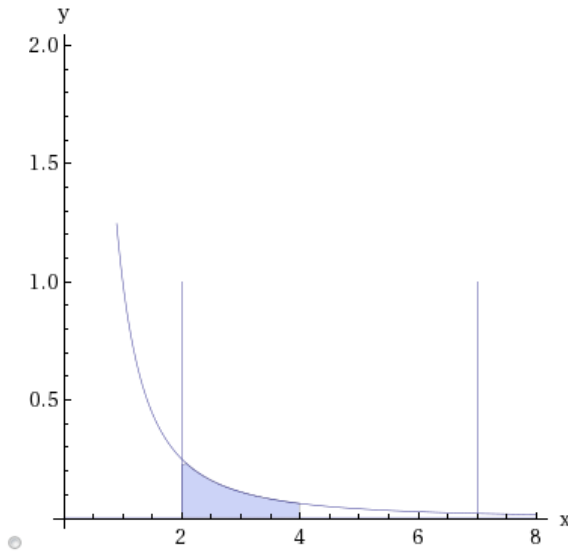
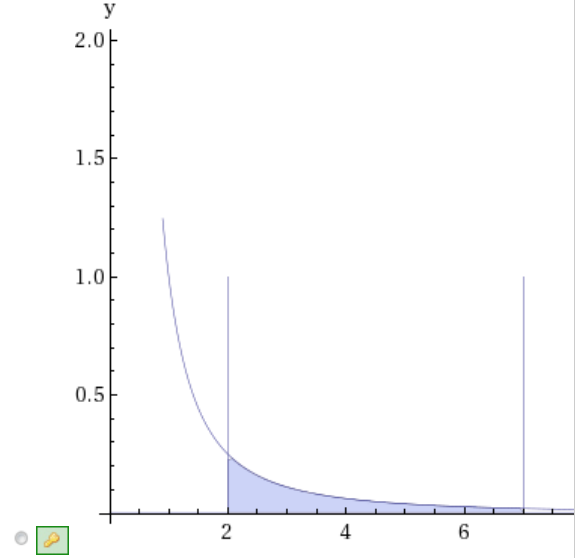
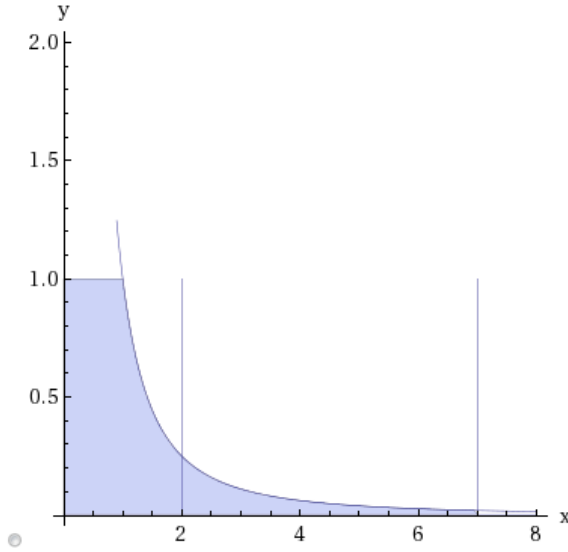
$$y = 1/x^2$$

$$y = 0$$

$$x = 2$$

$$x = 7$$

Sketch the region bounded by the graphs of the functions.



Find the area of the region.

5/14

6. 0/2 points

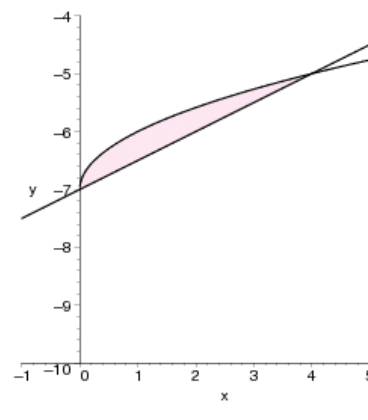
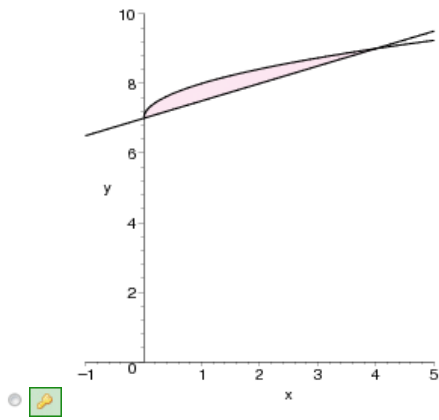
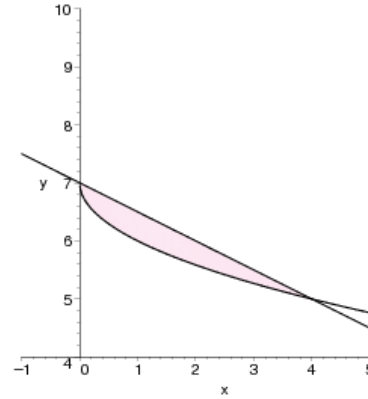
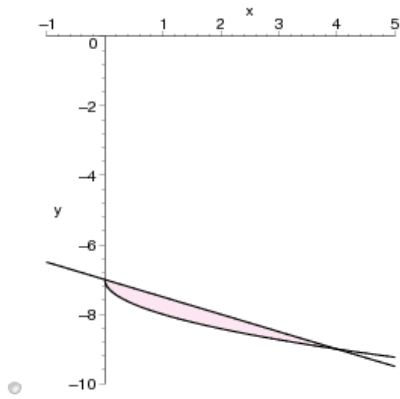
LarCalc9 7.1.029. [1785403]

Consider the following algebraic functions.

$$f(x) = \sqrt{x} + 7$$

$$g(x) = \frac{1}{2}x + 7$$

Sketch the region bounded by the graphs of the functions.



Find the area of the region.

4/3

7. 0/3 points

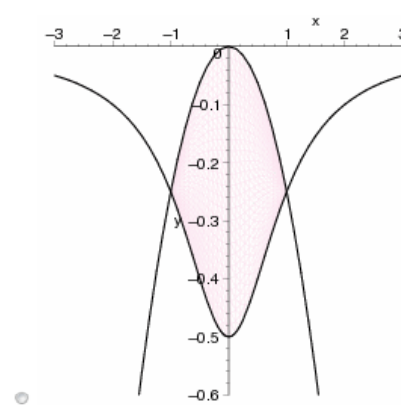
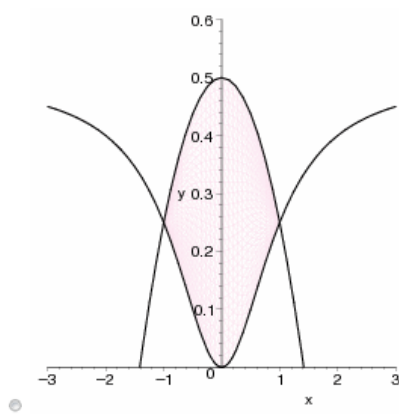
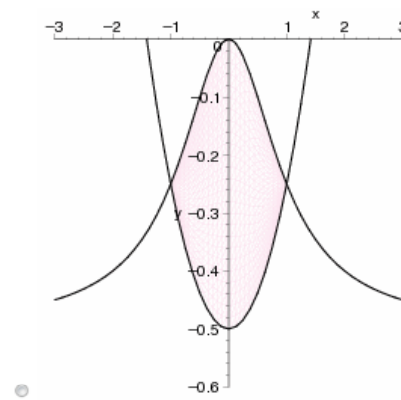
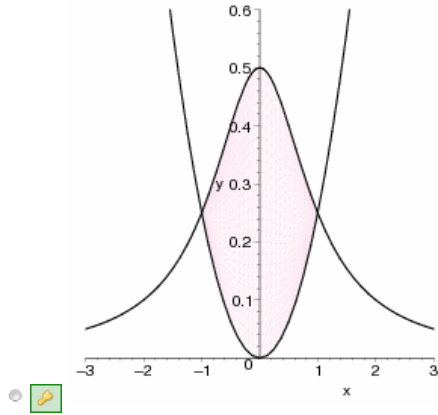
LarCalc9 7.1.043. [1101309]

Consider the following.

$$f(x) = \frac{1}{2(1+x^2)}$$

$$g(x) = \frac{1}{4}x^2$$

(a) Use a graphing utility to graph the region bounded by the graphs of the equations.



(b) Find the area of the region. (Round your answer to three decimal places.)

0.619

(c) Use the integration capabilities of the graphing utility to verify your results. (Round your answer to three decimal places.)

0.619

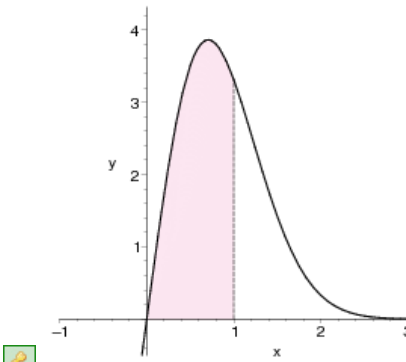
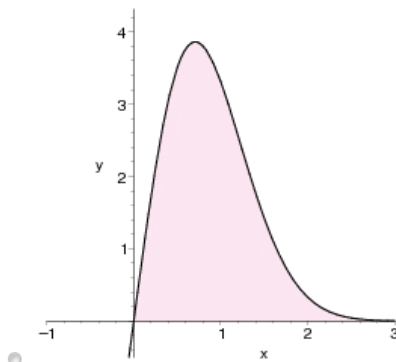
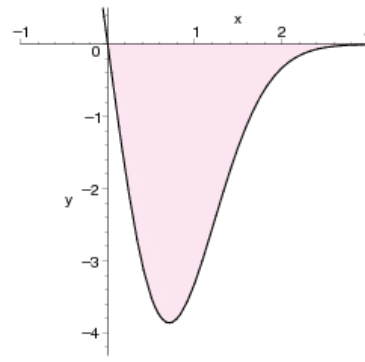
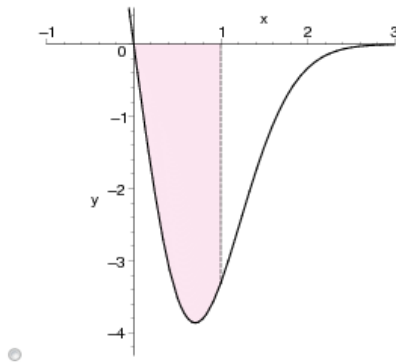
8. 0/2 points

LarCalc9 7.1.051. [1101357]

Consider the following functions.

$$f(x) = 9xe^{-x^2}, \quad y = 0, \quad 0 \leq x \leq 1$$

Sketch the region bounded by the graphs of the functions.



Find the area of the region. (Round your answer to three decimal places.)

2.845

Assignment Details

Name (AID): **UBII 7.1 (3909182)**  
 Submissions Allowed: **5**  
 Category: **Homework**  
 Code:  
 Locked: **No**  
 Author: **Goldsworthy, William (bgoldsworthy@soroschool.org)**  
 Last Saved: **Jun 26, 2013 08:07 PM EDT**  
 Permission: **Protected**  
 Randomization: **Person**  
 Which graded: **Last**

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