Name _____

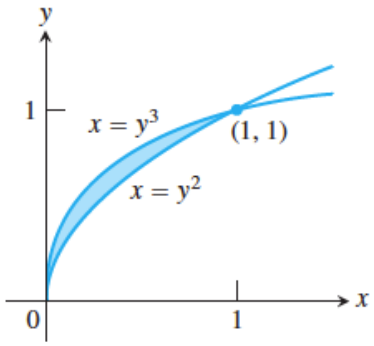
ap-calc.github.io

AP Calculus **Worksheet**

Area Between Two Curves – *y*-axis

Find the area of the shaded region analytically.

1)



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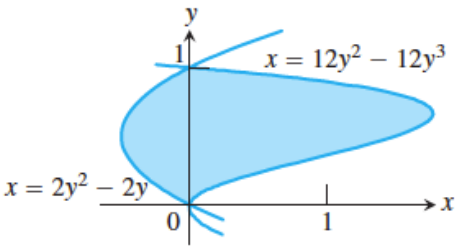
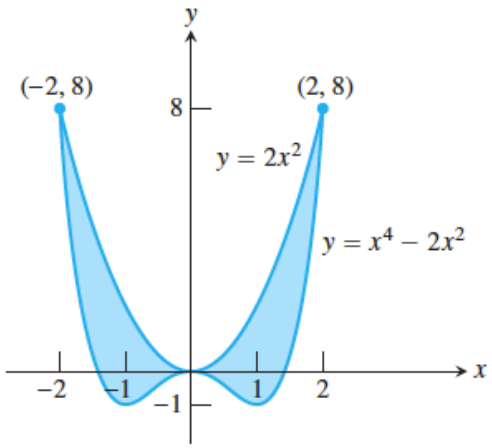


3)



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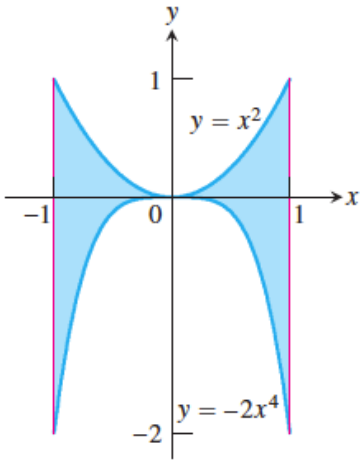
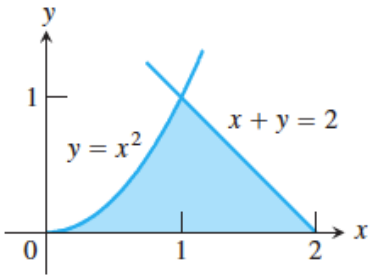
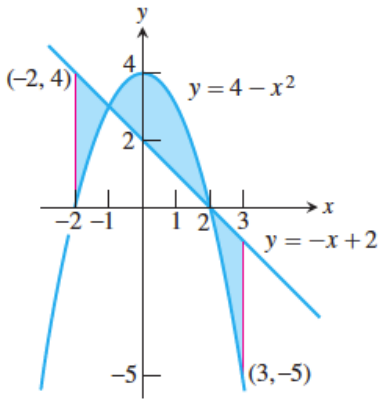


5)



6)



7) Find the area of the region(s) enclosed by the graphs of $x - y^2 = 0$ and $x + 2y^2 = 3$.

8) Which of the following gives the area of the region between the graphs of $y = x^2$ and $y = -x$ from $x = 0$ to $x = 3$?

A 2 **B** 9/2 **C** 13/2 **D** 13 **E** 27/2

Answers:

1) 1/12	2) 4/3	3) 128/15	4) 22/15	5) 5/6
6) 49/6	7) 4	8)		