Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**“Between Two Curves” Lab**

Match each Graph of Bounded Region to it’s Equations and Boundaries and it’s Integral Expression for Finding Area. Record your answers in the table below. When finished, select 3 to find the area.

|  |  |  |
| --- | --- | --- |
| **Graph of Bounded Region** | **Equations and Boundaries** | **Integral Expression for Finding Area** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |
| --- | --- |
| Graph of Bounded Region 1 | Graph of Bounded Region 2 |
| Graph of Bounded Region 3 | Graph of Bounded Region 4 |
| Graph of Bounded Region 5 | Graph of Bounded Region 6 |

|  |  |
| --- | --- |
| Equations and Boundaries AThe region is bounded by: | Equations and Boundaries BThe region is bounded by: |
| Equations and Boundaries CThe region is bounded by: | Equations and Boundaries DThe region is bounded by: |
| Equations and Boundaries EThe region is bounded by: | Equations and Boundaries FThe region is bounded by: |

|  |  |
| --- | --- |
| Integral Expression for Finding Area G + | Integral Expression for Finding Area H |
| Integral Expression for Finding Area I | Integral Expression for Finding Area J |
| Integral Expression for Finding Area K | Integral Expression for Finding Area L |

|  |  |  |  |
| --- | --- | --- | --- |
| **Graph of Bounded Region** | **Equations and Boundaries** | **Integration Set Up** | **Area** |
| 1 | F | I | 5/6 |
| 2 | A | K | 416/5 |
| 3 | E | G | 16 |
| 4 | B | J | -9 + 10.5ln7 |
| 5 | D | L | 4/3 |
| 6 | C | H | 1.5 |

**“Between Two Curves” Lab Answer Key**

**http://archives.math.utk.edu/visual.calculus/5/area2curves.3/index.html**