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| **Crack the Code** | **Volumes of Revolution** |

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| **A** | The curve and the line meet at the point . The region R is bounded by the curve , the line  and the -axis. Find the exact volume of the solid formed when R is rotated about the -axis. | **B** | The region R is bounded by the curve and the line . Find the exact volume of the solid formed when the region R is rotated radians about the  -axis. |
| **C** | The region R is formed between the circle , the line  and the positive -axis. Find the exact volume of the solid formed when the region R is rotated radians about the  -axis. | **D** | The region R is bounded by the curve the line and the positive -axis. Find the exact volume of the solid formed when the region R is rotated about the -axis. |
| **E** | The region R is formed between the curves and  . Find the exact volume of the solid formed when the region R is rotated radians about the -axis. | **F** | The region R is formed between the curves and and the -axis. Find the exact volume of the solid formed when the region R is rotated radians about the -axis. |
| Add all your answers together, then multiply by 21 and divide by . To get the three-digit code, round your answer to the nearest integer. | | | |