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| Group Quiz 3Dusty Wilson Math 153 No work = no credit | **Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Find the length of the curve *C* described by  on 

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| The graph to the right relates to questions (2.) and (3.) on the next page where you will be asked to find the angle between the curves at the point of intersection and the area enclosed inside both curves. |  |

Find the acute angle between curves  and  at their intersection point in the first quadrant.

Find the exact area enclosed inside both the curves  and .