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Test 1 Crash Course

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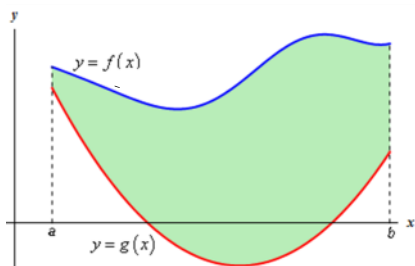


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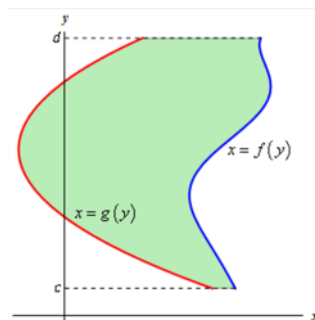
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6.1 - Area

Area Between Curves



$$Area = \int_a^b (\text{top} - \text{bottom}) dx$$



$$Area = \int_c^d (\text{Right} - \text{left}) dy$$

Steps

- Step 1) Sketch the curves & determine the region bounded by the curves.
- Step 2) Determine if the region is bounded top to bottom OR left to right and choose the appropriate formula.
- Step 3) Find the integral boundaries
- Step 4) Solve the integral

Note: This answer must **always** be positive

Example: Calculate the area bounded between $y = \sqrt{x}$ and $y = x^2$

6.1 - Area

Example: Compute the area between $f(x) = x^2 + 4x + 4$ and $g(x) = 4 - 3x$

6.1 - Area

Example: Find the area between $y = 1$ and $y = \sin x$ for $0 \leq x \leq \pi$.

6.1 - Area

Example: Compute the area between $y = x^3$ and $y = x$

6.1 - Area

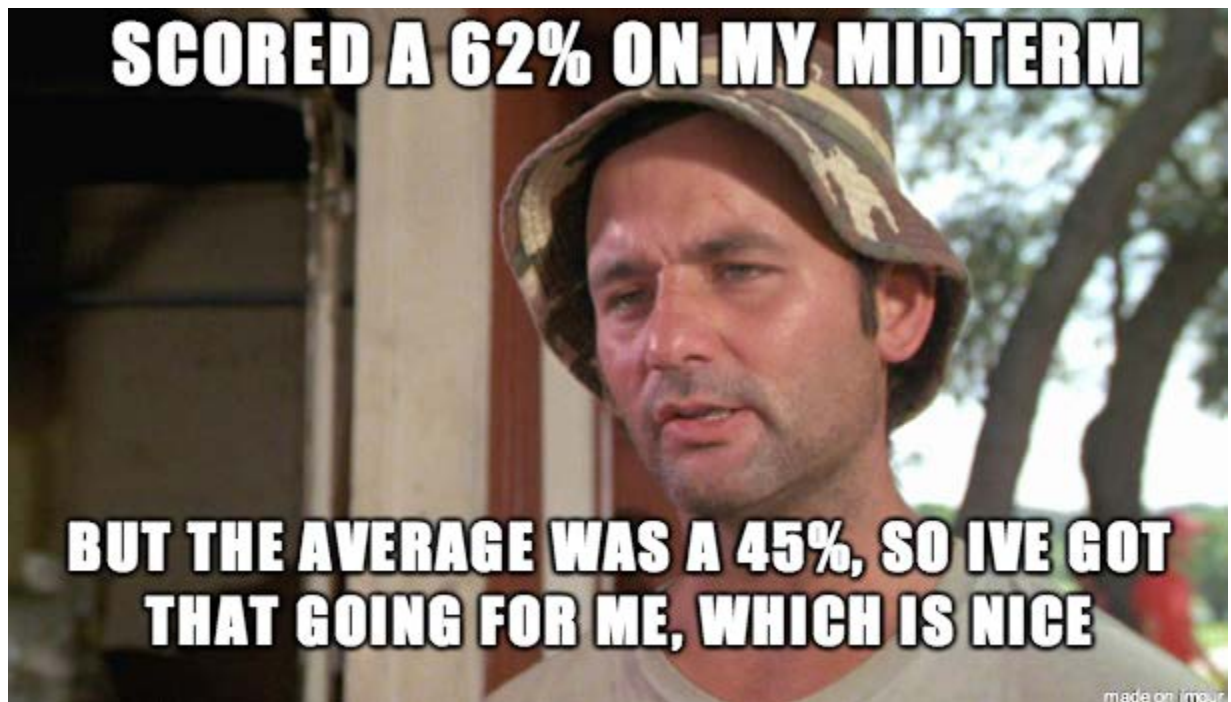
Example: Compute the area between $x = 2y^2$ and $x = 4 - y^2$

6.1 - Area

Example: Compute the area between $x = y^2$ and $y = x - 2$

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