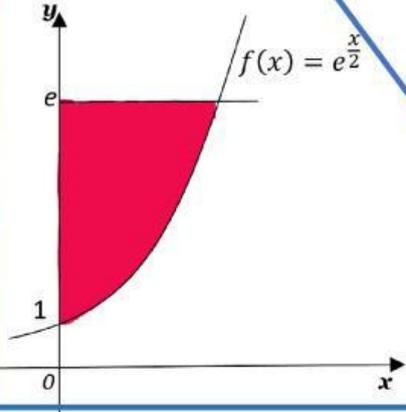
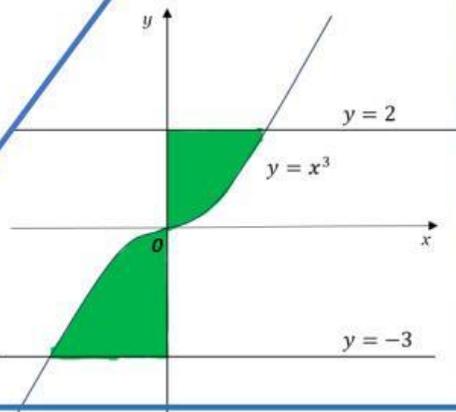
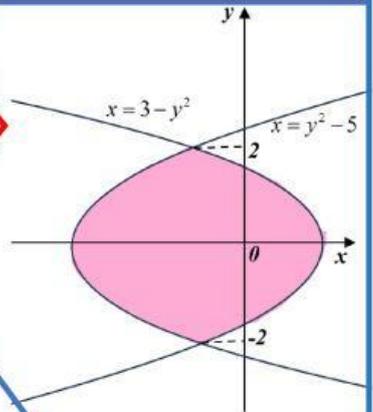
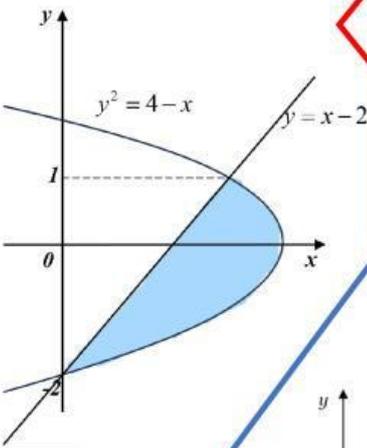


**Find the
 number of
 region
 bounded to
 determine
 the area**





When choosing the correct integral (in terms of x or y), what should you consider?

- The color of the curve
- The length of the curve
- The orientation of the curve
- The thickness of the curve

When calculating the area under a curve attached to the y -axis, what does a positive area indicate?

- The area is above the x -axis
- The area is below the x -axis
- The area is on the right of the y -axis
- The area is on the left of the y -axis

When calculating the area under a curve attached to the x -axis, what does a negative area indicate?

- The area is below the x -axis
- The area is above the x -axis
- The area is on the right of the y -axis
- The area is on the left of the y -axis

In the context of finding the area under a curve, what does the modulus help to avoid?

- Fractions
- Negative values
- Complex numbers
- Positive values

If the area under a curve is attached to the y -axis, what should be done to avoid negative values?

- Multiply by -1
- Use the modulus
- Divide by 2
- Take the square root

What is the formula used to find the area under a curve when the area is attached to the y -axis?

- Integral with respect to x
- Integral with respect to y
- Derivative with respect to x
- Derivative with respect to y



| | |
|--|--|
| <p>In the context of calculus, what does the term 'enclosed region' refer to?</p> <ul style="list-style-type: none"><input type="radio"/> The area between two curves<input type="radio"/> The intersection of two curves<input type="radio"/> The limit of a sequence<input type="radio"/> The derivative of a function | <p>What is the relationship between the area enclosed by two curves and the definite integral?</p> <ul style="list-style-type: none"><input type="radio"/> The integral represents the area<input type="radio"/> The area is the limit of the integral<input type="radio"/> The area is the derivative of the integral<input type="radio"/> They are equivalent concepts |
| <p>In the context of the text, which curve is above and which is below?</p> <ul style="list-style-type: none"><input type="radio"/> Curve above is Y1, curve below is Y2<input type="radio"/> Curve above is Y2, curve below is Y1<input type="radio"/> Both curves are above<input type="radio"/> Both curves are below | <p>When finding the area horizontally with respect to the Y axis, what formula is used?</p> <ul style="list-style-type: none"><input type="radio"/> $Y1 + Y2$<input type="radio"/> $Y1 / Y2$<input type="radio"/> $Y1 * Y2$<input type="radio"/> $Y1 - Y2$ |
| <p>Which mathematical operation is primarily used to calculate the area between two curves?</p> <ul style="list-style-type: none"><input type="radio"/> Division<input type="radio"/> Multiplication<input type="radio"/> Subtraction<input type="radio"/> Addition | <p>What role does the concept of limits play in calculating the area between two curves?</p> <ul style="list-style-type: none"><input type="radio"/> It defines the boundaries of the region<input type="radio"/> It has no relevance to the calculation<input type="radio"/> It determines the accuracy of the calculation<input type="radio"/> It helps in finding the average value |

Integrated with respect to x (dx) or Integrated with respect to y (dy)

