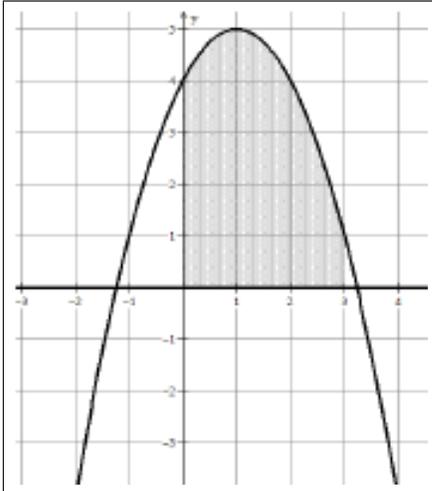
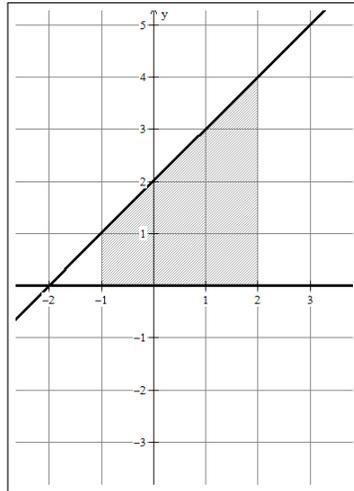
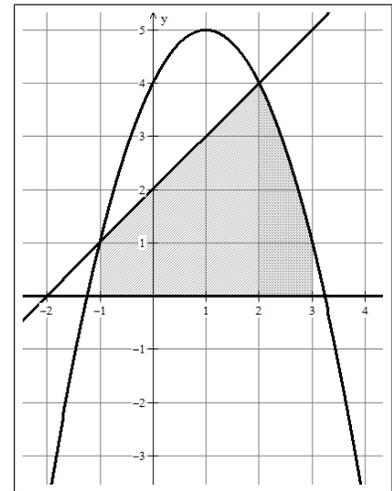


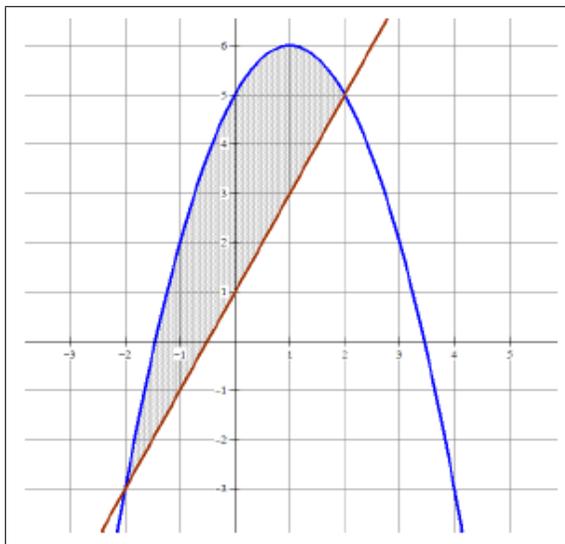
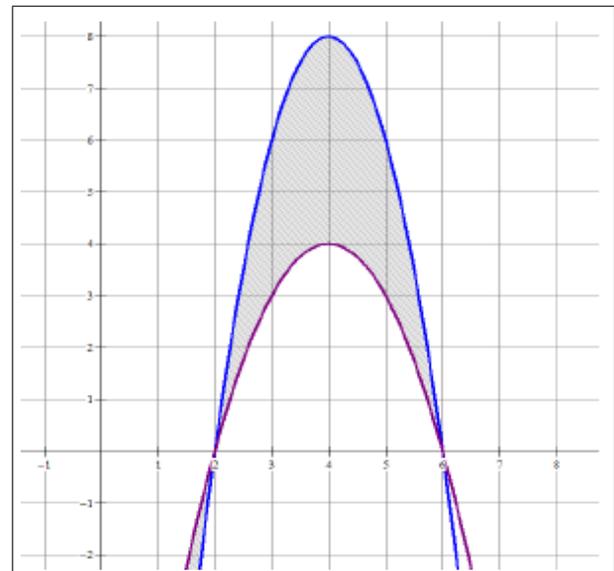
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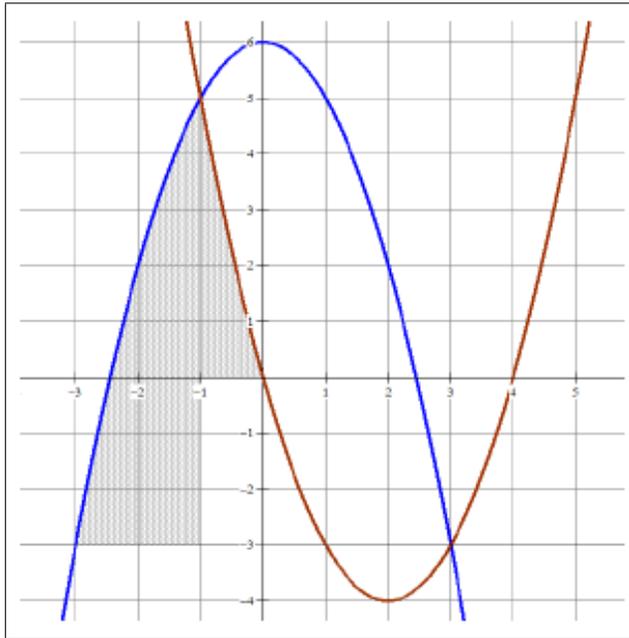
Grupo:

1. En cada caso, a partir de la gráfícada dada, determine el área sombreada expresándola en términos de una o más integrales definidas

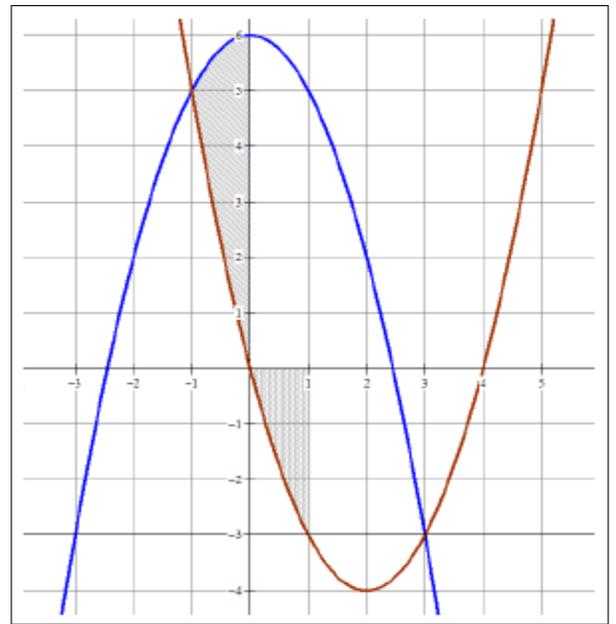

 $A =$

 $A =$

 $A =$

2. En cada caso, a partir de la gráfícada dada, determine el área sombreada expresándola en términos de una o más integrales definidas

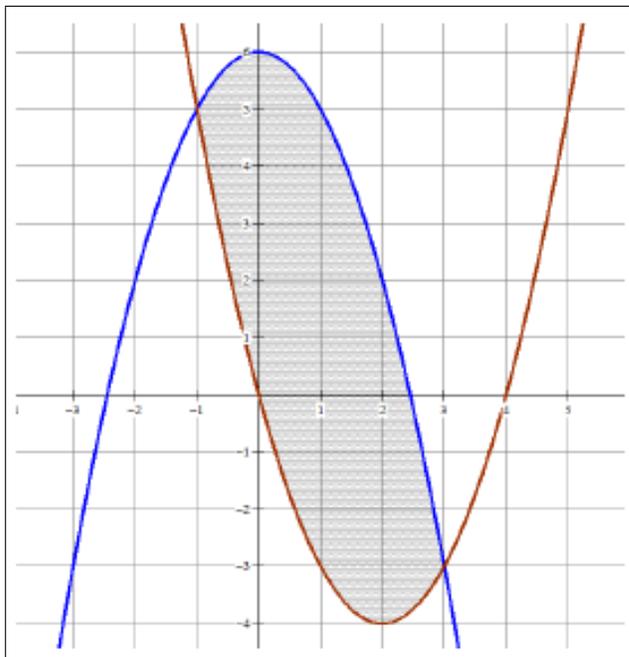

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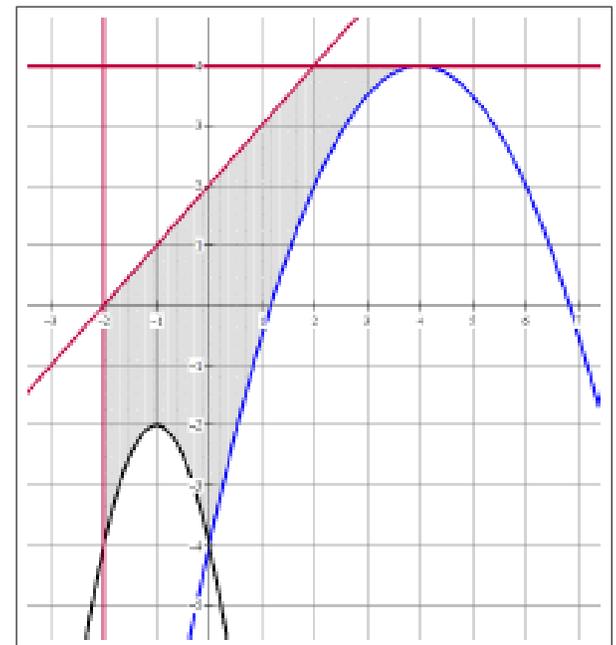
A =



A =



A =



A =

3. Determine en cada caso, el área acotada por las funciones dadas. Grafique la situación y determine los puntos de corte entre las funciones.

(a)
$$\begin{cases} f(x) = x^2 - 6 \\ g(x) = -x^2 + 4x \end{cases}$$

(b)
$$\begin{cases} f(x) = -2x - 1 \\ g(x) = x^2 - 2x - 5 \end{cases}$$

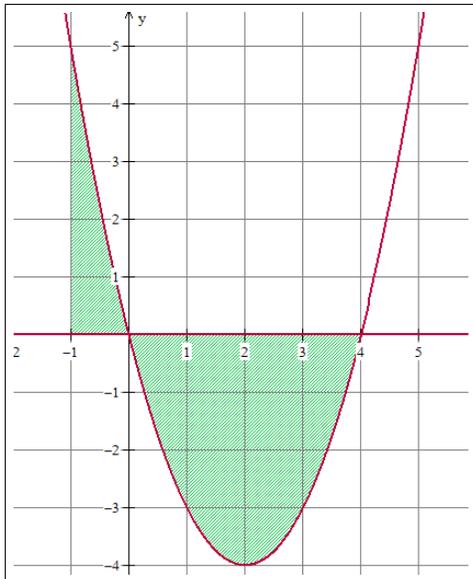
$$(c) \begin{cases} f(x) = x \\ g(x) = -2(x+1)^2 - 2 \\ x = -2, x = 0 \end{cases}$$

$$(d) \begin{cases} f(x) = \frac{1}{2}x + 3 \\ g(x) = 2x - 3 \\ w(x) = -\frac{1}{2}x - 3 \end{cases}$$

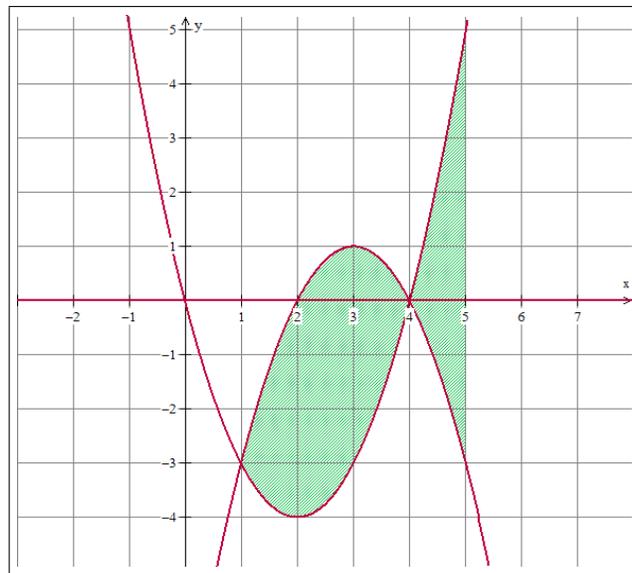
$$(e) \begin{cases} f(x) = -2x^2 + 16x - 24 \\ g(x) = x^2 - 8x + 12 \end{cases}$$

$$(f) \begin{cases} f(x) = -x + 2 \\ g(y) = y^2 \end{cases}$$

4. Expresé el área sombreada en término de integrales



$A =$



$A =$