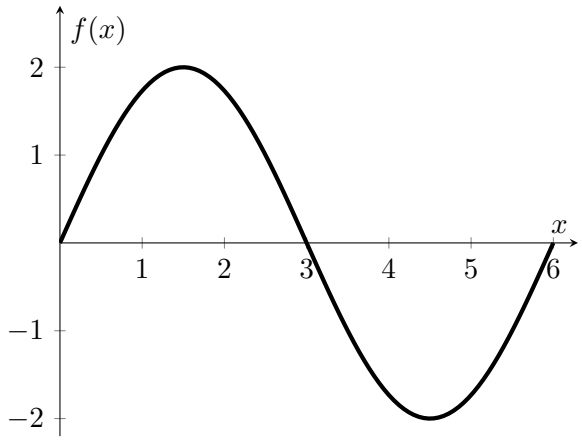
Name: _____

1. Consider the function $f(x)$ graphed below.

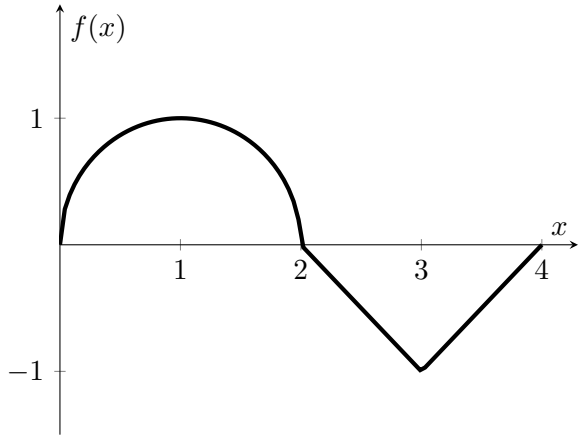


(a) Give the exact value of $\int_0^6 f(x)\,dx$. Briefly explain your answer.

(b) Write an expression in terms of one or more integrals, that gives the total area between the curve and the x-axis.

Name: _____

1. Consider the function $f(x)$ graphed below. Assume each portion of the graph is either part of a line or part of a circle.

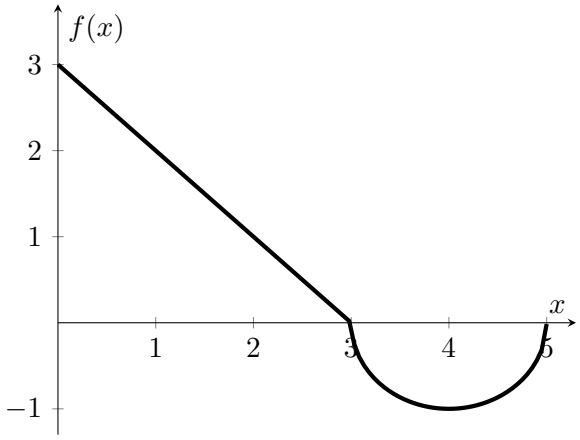


   (a) Give the exact value of $\int_0^4 f(x)\,dx$. Briefly explain your answer.

   (b) Write an expression in terms of one or more integrals, that gives the total area between the curve and the x-axis.

Name: _____

1. Consider the function $f(x)$ graphed below. Assume each portion of the graph is either part of a line or part of a circle.

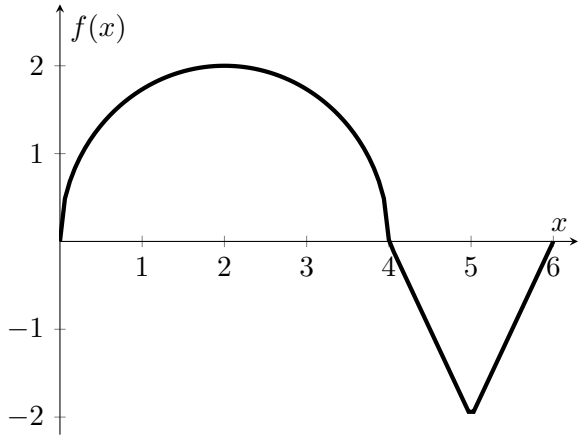


   (a) Give the exact value of $\int_0^5 f(x)\,dx$. Briefly explain your answer.

   (b) Write an expression in terms of one or more integrals, that gives the total area between the curve and the x-axis between $x = 0$ and $x = 5$.

Name: _____

1. Consider the function $f(x)$ graphed below. Assume each portion of the graph is either part of a line or part of a circle.



   (a) Give the exact value of $\int_0^6 f(x)\,dx$. Briefly explain your answer.

   (b) Write an expression in terms of one or more integrals, that gives the total area between the curve and the x-axis.