

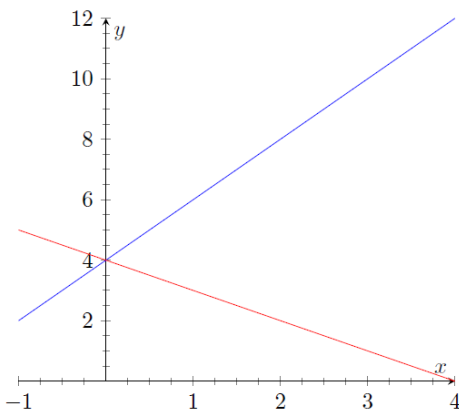
Finding the Area of a Region Bounded by Two Curves

Learning Objectives

- Find the area of a region between two linear functions
 - Find the area of a region between a linear function and another function
 - Find the area of a region bounded between two curves
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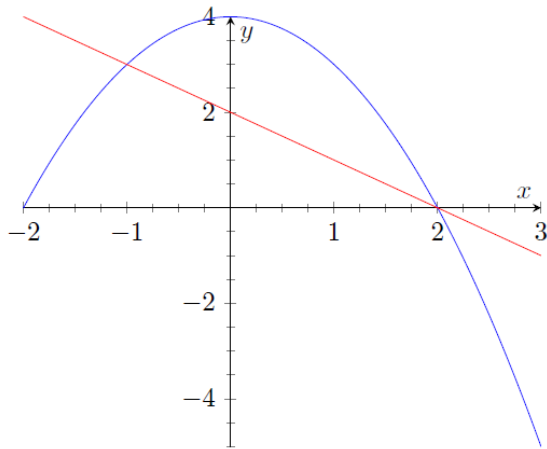
Find the area of a region between two linear functions

1. Find the area between the functions $f(x) = 2x + 4$, $g(x) = -x + 4$ and $x = 4$.



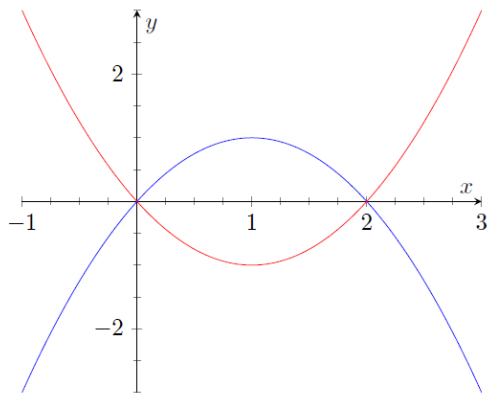
Find the area of a region between a linear function and another function

2. Find the area of the functions $f(x) = 4 - x^2$ and $g(x) = -x + 2$.



Find the area of a region bounded between two curves

3. Find the area bounded between $f(x) = 2x - x^2$ and $g(x) = x^2 - 2x$.



ANSWER KEY

1. 24

2. $\frac{9}{2}$

3. $\frac{8}{3}$