

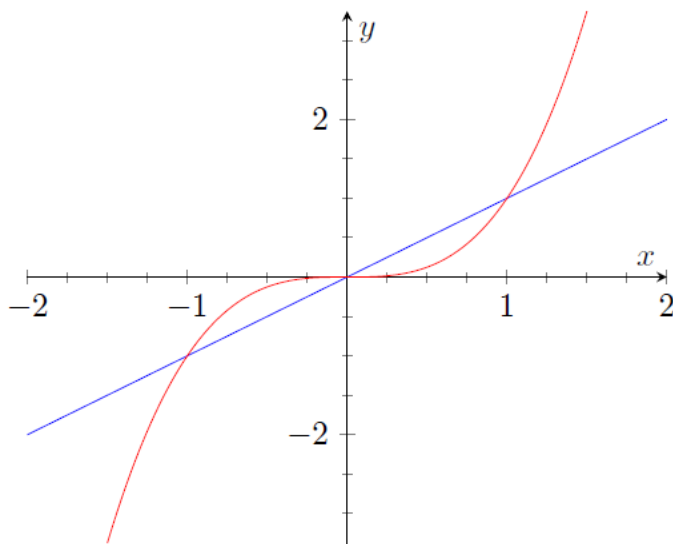
Finding the Area of Compound Regions

Learning Objectives

- Find the area of a region bounded by two regions that cross
 - Find the area of a region bounded above by two different functions
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Find the area of a region bounded by two regions that cross

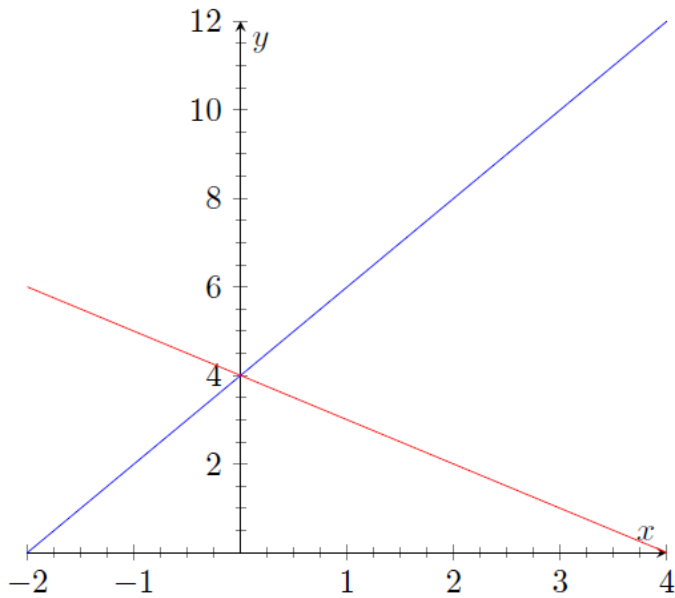
1. Find the area of the region bounded by $f(x) = x$ and $g(x) = x^3$.



Find the area of a region bounded above by two different functions

2. Find the area bounded by the functions $f(x) = 2x + 4$, $g(x) = -x + 4$ and the x-axis.

Verify your answer geometrically.



ANSWER KEY

1. $\frac{1}{2}$

2. 12