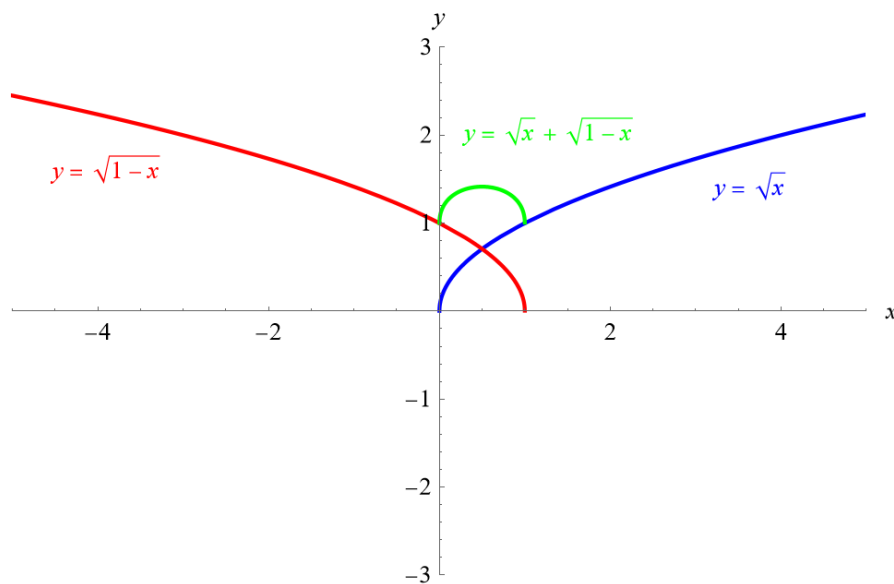# Exercise 81

(*Continuation of Example 1*) Graph the functions $f(x) = \sqrt{x}$ and $g(x) = \sqrt{1-x}$ together with their (a) sum, (b) product, (c) two differences, (d) two quotients.
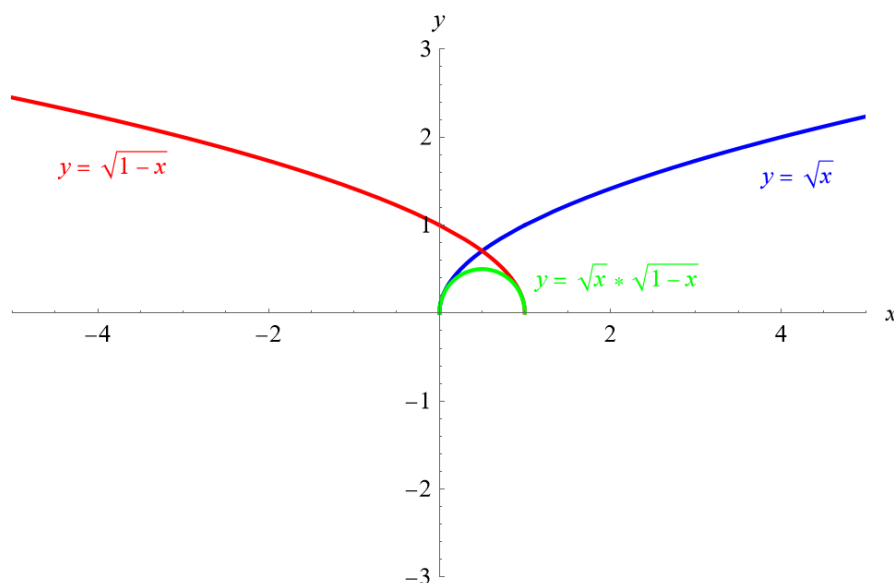

Solution

Part (a)

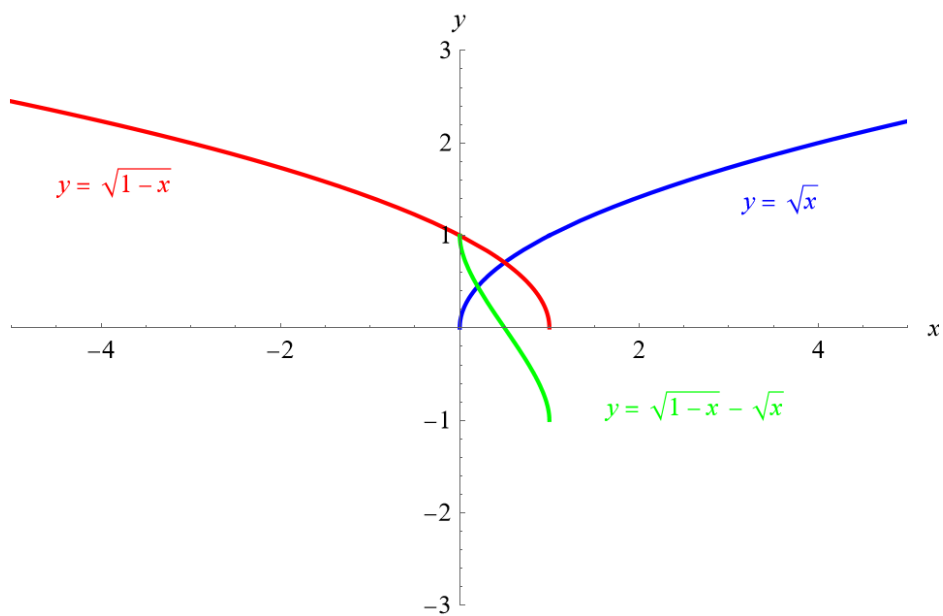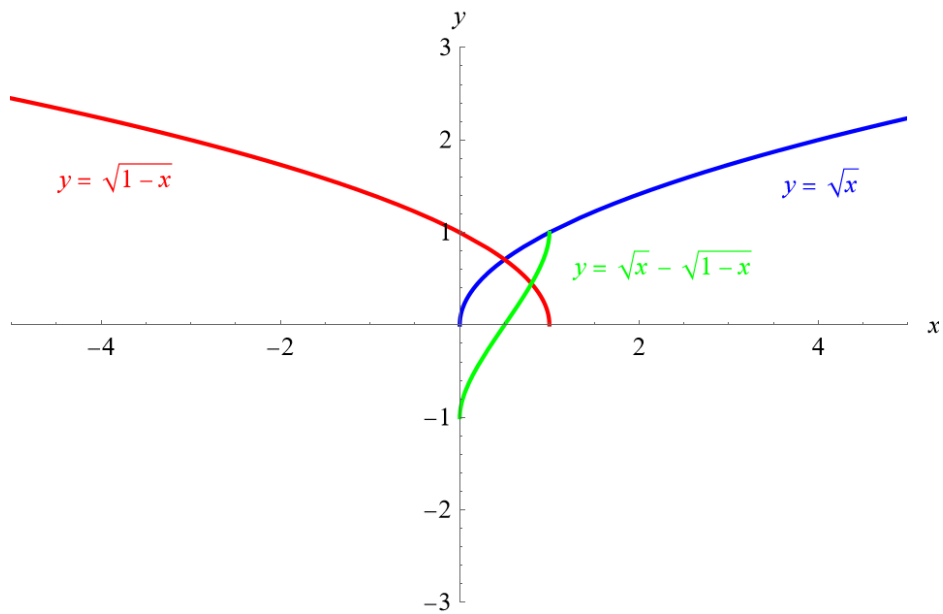Below is a graph of $f(x) = \sqrt{x}$ and $g(x) = \sqrt{1-x}$ together with their sum.

Part (b)

Below is a graph of $f(x) = \sqrt{x}$ and $g(x) = \sqrt{1-x}$ together with their product.

Part (c)

Below are graphs of $f(x) = \sqrt{x}$ and $g(x) = \sqrt{1-x}$ together with their two differences.

Part (d)

Below are graphs of $f(x) = \sqrt{x}$ and $g(x) = \sqrt{1-x}$ together with their two quotients.