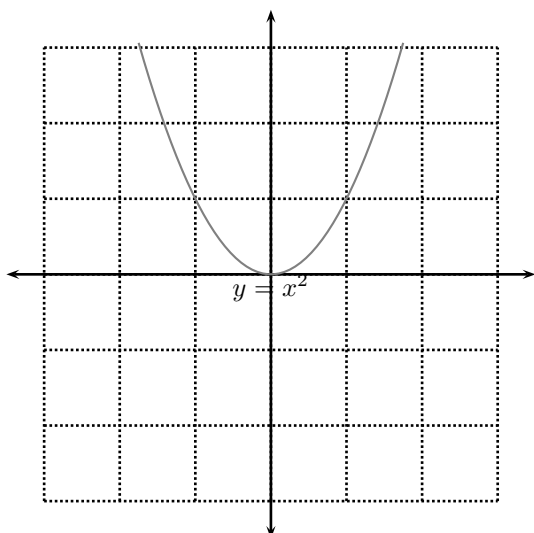


Precalculus

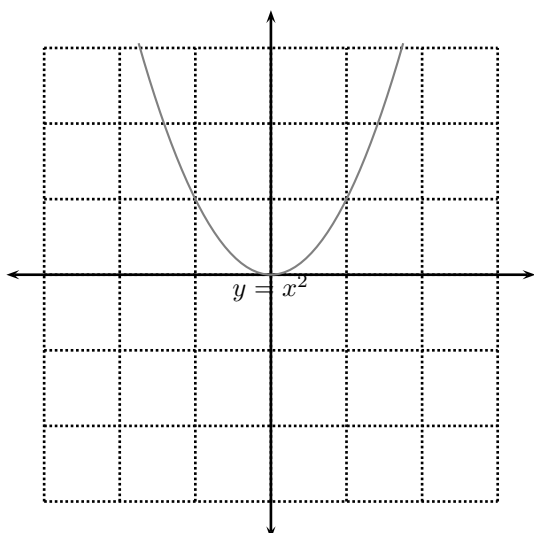
Homework Lecture 12

1. Sketch by hand approximately the given function. The function is obtained by transforming linearly the graph of a known function. The known function has been sketched for you by computer.

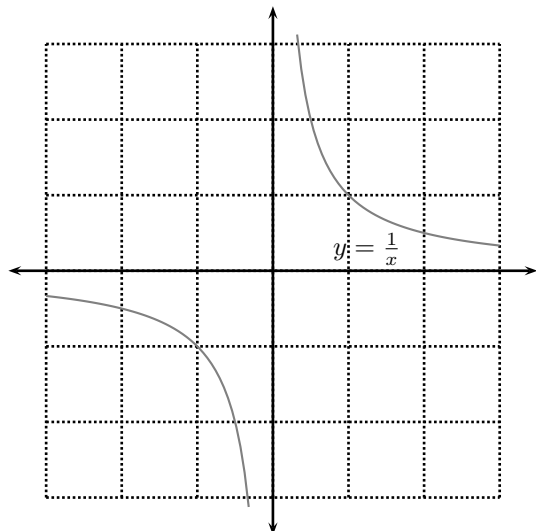
(a) $f(x) = -\frac{1}{2}x^2 + 1$.



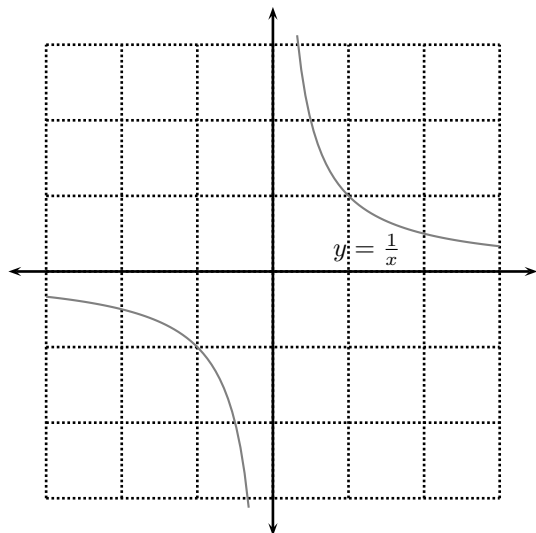
(b) $f(x) = \frac{1}{2}x^2 + x - 1$.



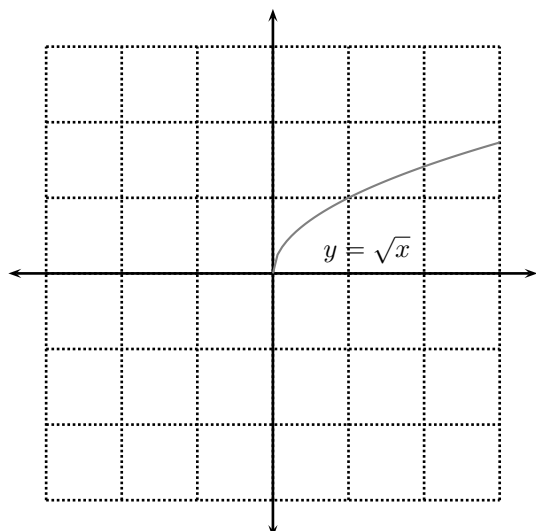
(c) $f(x) = \frac{1}{2x-1} + 1.$



(d) $f(x) = \frac{\frac{1}{2}x + \frac{1}{4}}{x - \frac{1}{2}} + \frac{1}{2}.$



(e) $f(x) = -\sqrt{2x-1} - 1$



(f) $f(x) = -\sqrt{-2x - 1} + 1$

