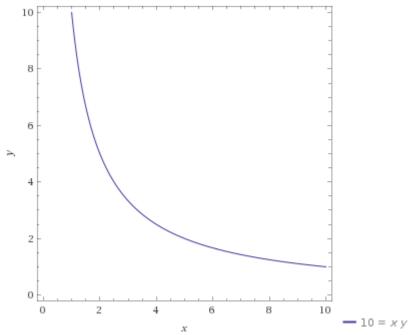
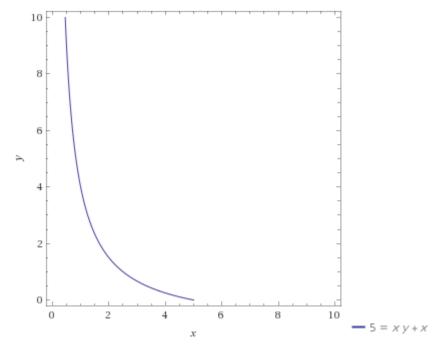
- 1. A)  $-\frac{x_2}{x_1}$ B)  $-\frac{3x_2}{x_1}$ C)  $-\frac{x_2}{x_1}$ D)  $-\frac{2}{3}x_1$ E)  $-\frac{x_2}{x_1}$ F)  $-\frac{1+x_2}{x_1}$

A,C,E have the same preferences.

- 2) A) L-shaped graphs with kinks along the 45-degree line  $x_1=x_2$
- B) Same as part A.
- C) L-shaped graphs that bend the opposite way as part A with kinks along the line  $x_2 = 2x_1$ .
- D) This utility function represents the same preferences as  $x_1x_2$  and so the indifference curves are nice convex curvy graphs that approach but never reach either the X or Y axis.



E) These indifference curves look like the ones above but are all shifted down by one. This means they are nice and curvy convex shapes but they do intercept the x-axis.



- 3) A) Any amount of  $x_1$  and  $x_2$  that cost 10.
- B)  $x_1 = 5, x_2 = 2.5$
- C)  $x_1 = 6$ ,  $x_2 = 2$ D)  $x_1 = \frac{10}{3}$ ,  $x_2 = \frac{10}{3}$ E)  $x_1 = 2$ ,  $x_2 = 4$