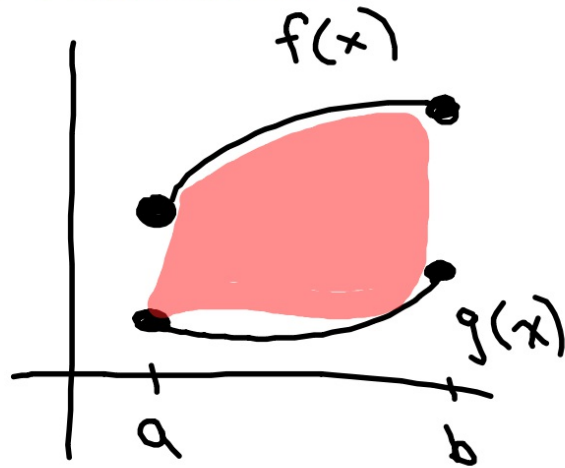
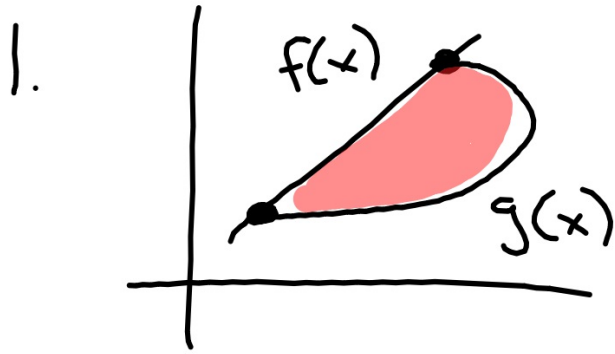


7.1 B Horizontal Area
WCID? I can find area between
two functions

A. Think:

$$\int_a^b f(x) - g(x) dx$$





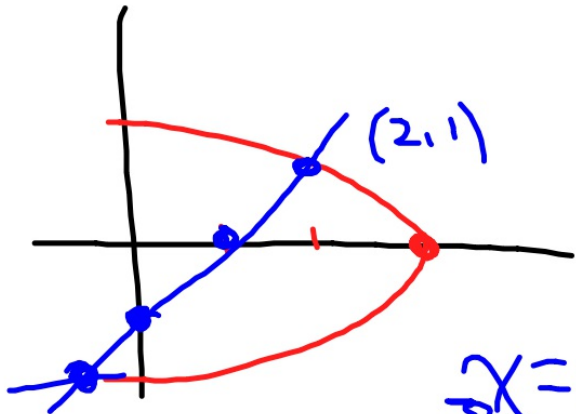
2. Right

2. Some functions are
"easier" in terms of

y

3. Right - Left

Ex. $f(y) = 3 - y^2$ $g(x) = y + 1$



$$x = y + 1$$

x	y
0	-1
1	0
2	1

$$3 - y^2 = y + 1$$

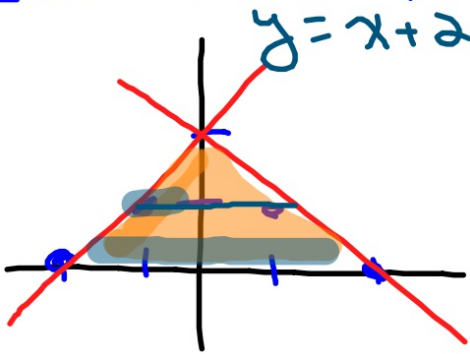
$$y^2 + y - 2 = 0$$

$$(y + 2)(y - 1) = 0$$

$$y = -2, 1$$

$x = y + 1$
 $x \cdot y = 1$

Ex. $f(x) = x + 2$



$g(x) = -x + 2$,
 $y = -x + 2$ $y = 0$
 $x = -y + 2$

$$\int_0^2 (-y + 2) - (y - 2) dy$$

$$\int_0^2 -2y + 4 dy$$

$$\left[-y^2 + 4y \right]_0^2$$

$$= -4 + 8$$

$$= 4$$

13b, 27-32
33-36

