DATE:	
DAIL:	

1. Find the area of the region under each curve and bounded by x = 1 and x = -2.

a)
$$y = -x + 5$$

b)
$$y = x^2 + 3$$

2. Find the area between y = -x + 5 and $y = x^2 + 3$ from x = 1 to x = -2.

Area Between Curves

Examples

1. Find the area of the region bounded by the graphs of $y = \frac{1}{x^2}$, y = -x, x = 1, and x = 2.

2. Find the area of the region bounded by the graphs of $f(x) = \sqrt{3x} + 1$, g(x) = x + 1.

3. Find the area of one of the regions bounded by $f(x) = \sin x$ and $g(x) = \cos x$.

4. Find the area of the region bounded by $f(y) = 2y - y^2$ and g(y) = -y.