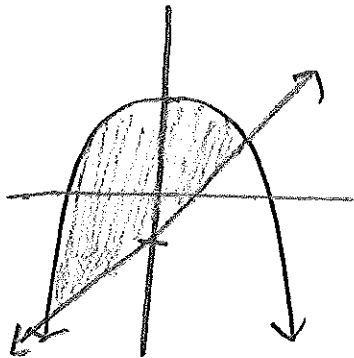


Sketch the graphs, shade the bounded region and find the area bounded by the given expressions.

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

TB

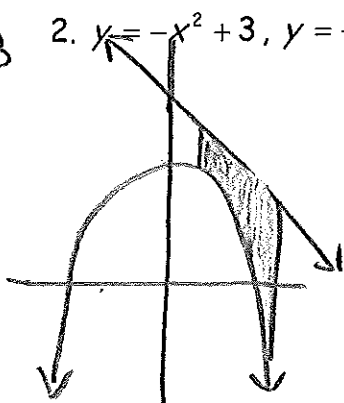


$$\int_{-3.236}^{1.236} (-x^2 + 3) - (2x - 1) dx$$

14.907

2. $f(x) = -x^2 + 3$, $y = -2x + 7$, $x = 1$, $x = 3$

TB

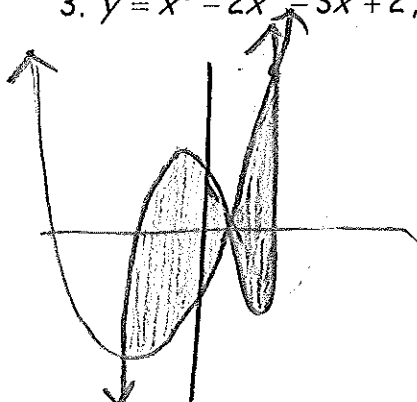


$$\int_1^3 (-2x + 7) - (-x^2 + 3) dx$$

8.667

3. $y = x^3 - 2x^2 - 3x + 2$, $y = x^2 + 4x - 5$

TB



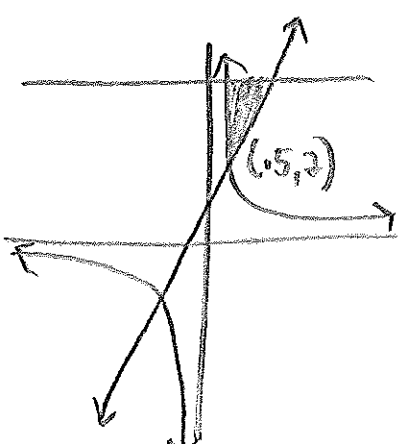
$$\int_{-2.057}^{.799} (x^3 - 2x^2 - 3x + 2) - (x^2 + 4x - 5) dx + \int_{.799}^{4.258} (x^2 + 4x - 5) - (x^3 - 2x^2 - 3x + 2) dx$$

$$\int_{-2.057}^{.799} (x^3 - 3x^2 - 7x + 7) dx$$

$$18.979 + 31.622$$

50.601

RL $4y = 5$, $y = 2x + 1$, $y = \frac{1}{x}$



$$\int_{0.5}^5 (.5y - .5) - (\frac{1}{y})$$

2.834

$$y = 2x + 1$$

$$y - 1 = 2x$$

$$.5y - .5 = x$$