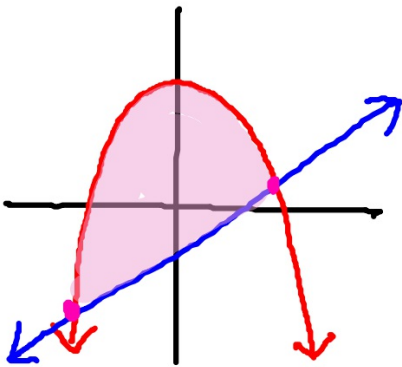


Sketch the graphs, shade the bounded region and find the area bounded by the given expressions.

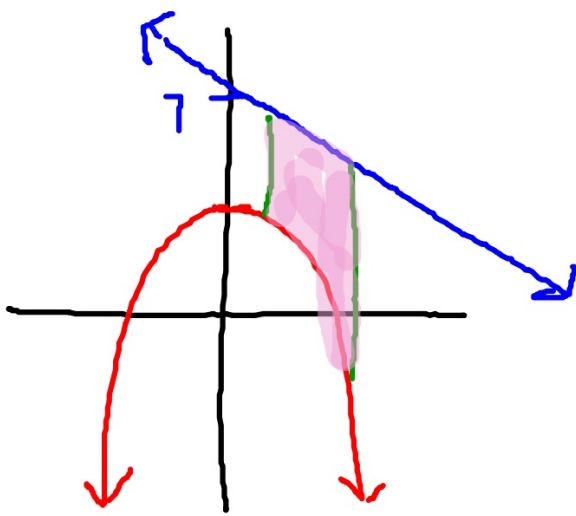
1. $f(x) = -x^2 + 3$, $g(x) = 2x - 1$



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

$$14.9070^2$$

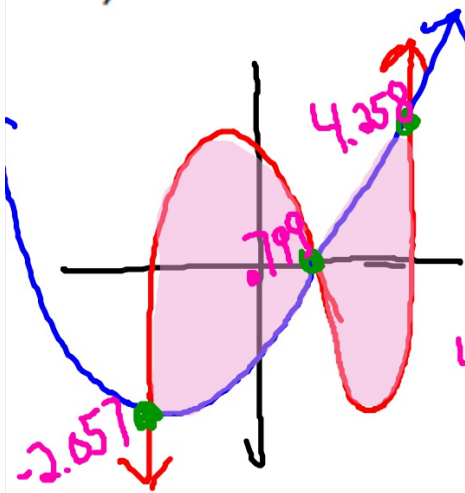
2. $y = -x^2 + 3$, $y = -2x + 7$, $x = 1$, $x = 3$



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

$$8.6670^2$$

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



$$\int_{-2.657}^{0.799} (x^3 - 2x^2 - 3x + 2) - (x^2 + 4x - 5) dx$$

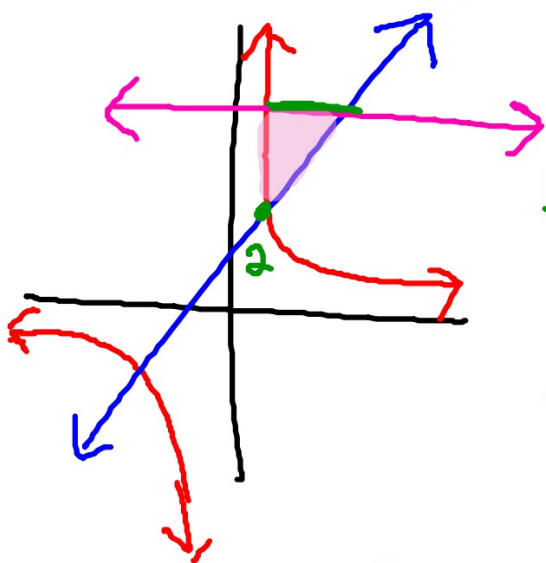
18.979

$$\int_{0.799}^{4.258} (x^2 + 4x - 5) - (x^3 - 2x^2 - 3x + 2) dx$$

31.622

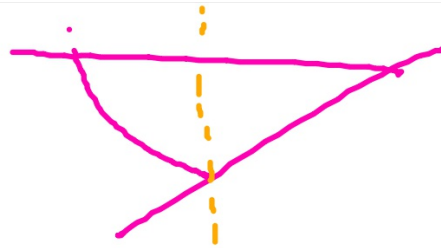
50.6010²

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



$$y - 1 = 2x$$

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



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

$$2.834 \text{ u}^2$$