Sometimes horizontal rectangles are a better option...

Example:

Determine the area of the region bound by the curves $x = y^2$ and $x = -2y^2 + 1$.

$$= \frac{2 - (-5)}{5 - (-5)}$$

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$$= \frac{(-1 + 3) - (1 - 3)}{(-3)^{2} + 3}$$

$$= -\frac{(-1 + 3) - (1 - 3)}{(-3)^{2} + 3}$$

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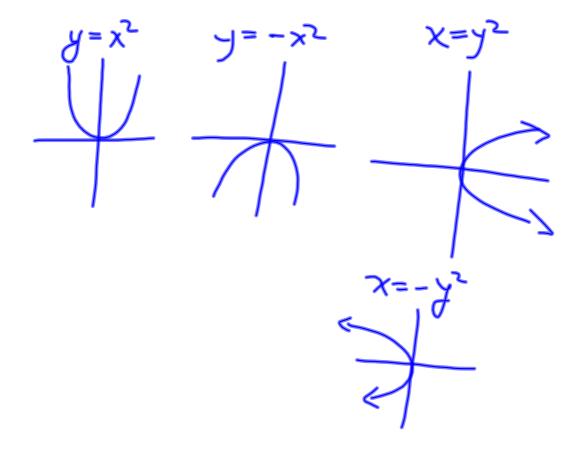
$$= -\frac{(-1 + 3) - (1 - 3)}{(-3)^{2} + 3}$$

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$$= -\frac{(-1 + 3) - (-3)}{(-3)^{2} + 3}$$

$$= -\frac{$$



Determine the area bounded by the curves $x + 7 = y^2$ and y = x + 1.

$$x = y^{2} - 7$$

$$y^{2} - y - 6 = 0$$

$$y = 3, -2$$

$$y = 3$$

$$y = 4$$

$$y =$$