A line has an equation y = 4x - 2. A different line is parallel to that but goes through the point (-4, 2). What is the equation in slope intercept form of that new line?

$m = 4$

$y - y_1 = m(x - x_1)$

$y - 2 = 4(x + 4)$

$y - 2 = 4x + 16$

$+2 \quad +2$

$y = 4x + 18$

Graphing Linear Inequalities

Is the ordered pair a solution of the linear inequality?

$y > 3x + 2$; (1, 9)

$9 > 3(1) + 2$

$9 > 5$

yes

$3x < 2y + 9$; (4, 0)

$3(4) < 2(0) + 9$

$12 < 9$

false

$< , >$

$\leq , \geq$

$y \geq -3x + 4$

$6 \quad -6+4$

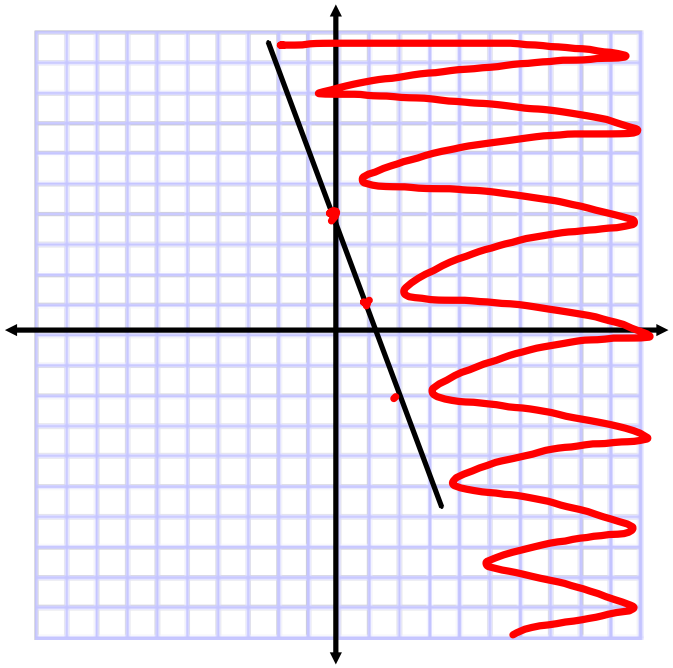
$6 \geq -2$

$0 \geq 4$

Possible Solutions:

(2,6) (0,0)

(0,4)



$y > -x - 5$

$0 > -5$

$-6 > 5 - 5$

$-6 > 0$

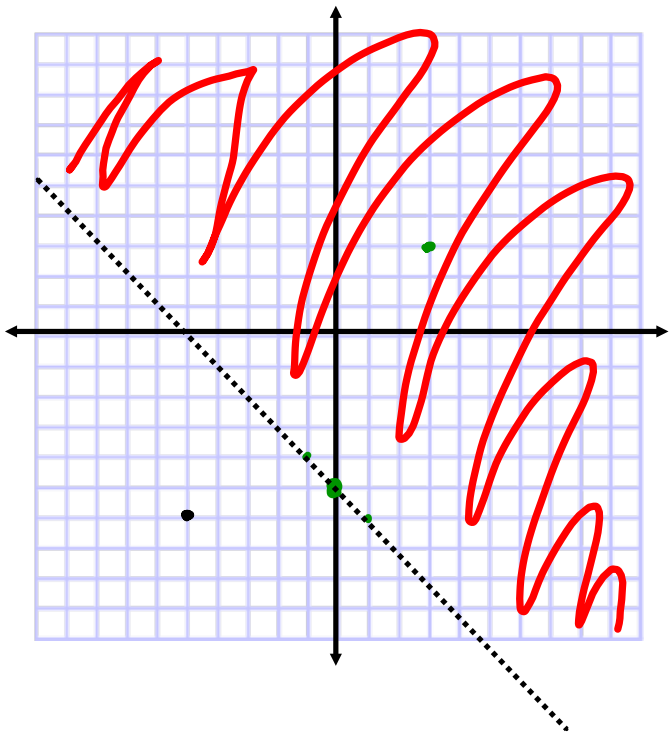
Possible Solutions:

$(0,0)$ $(-5,-6)$

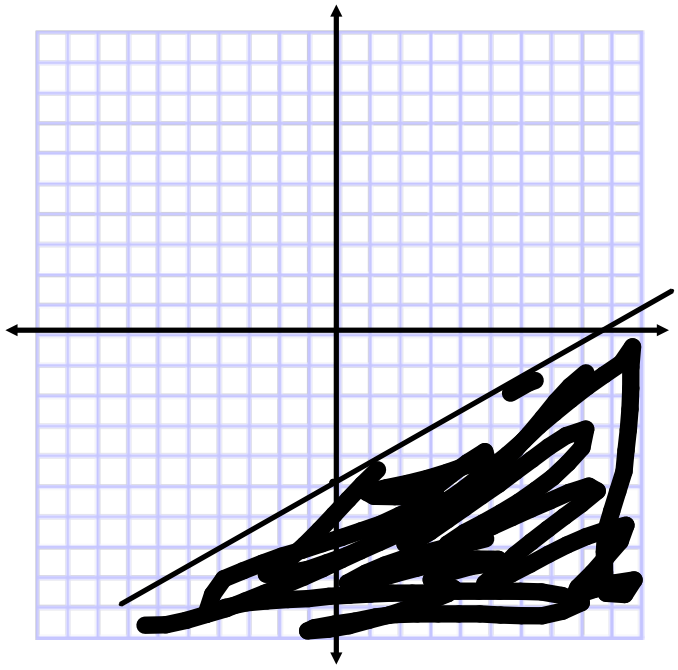
$(3,3)$

$3 > -3 - 5$

$3 > -8$



$$y \leq \frac{3}{5}x - 5$$



Possible Solutions:

(0, 0) (10, 2)

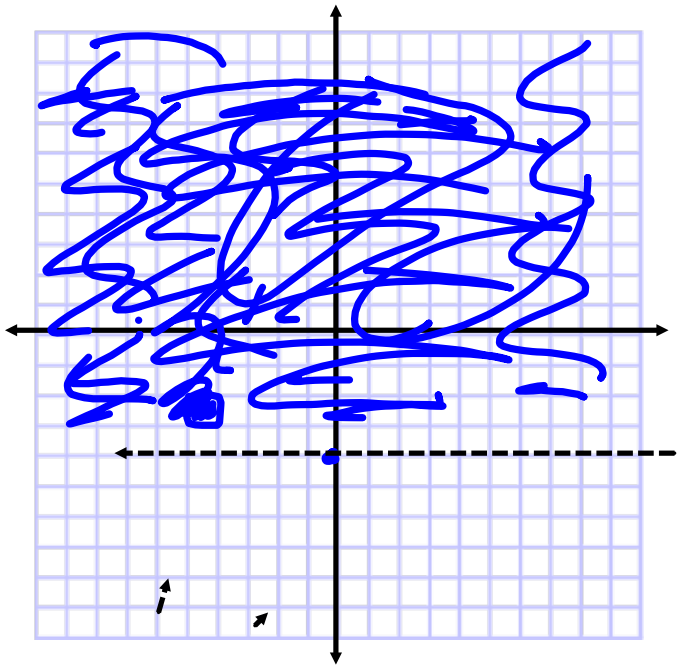
$y > -4$

$0 > -4$

true

Possible Solutions:

(0,0)



$-4x - 2y > 10$

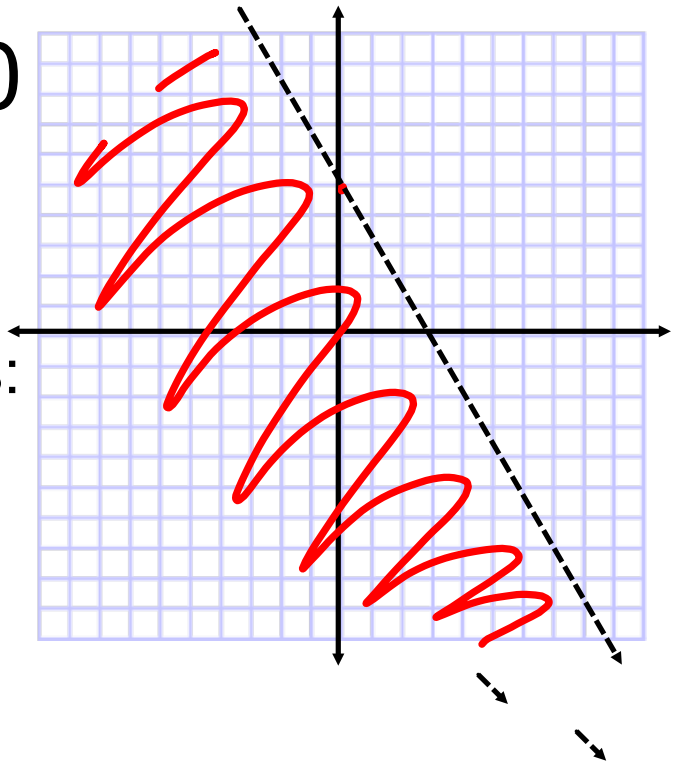
$-2y > 4x + 10$

$y < -2x + 5$

Possible Solutions:

$(0,0)$

$0 \leq 5$



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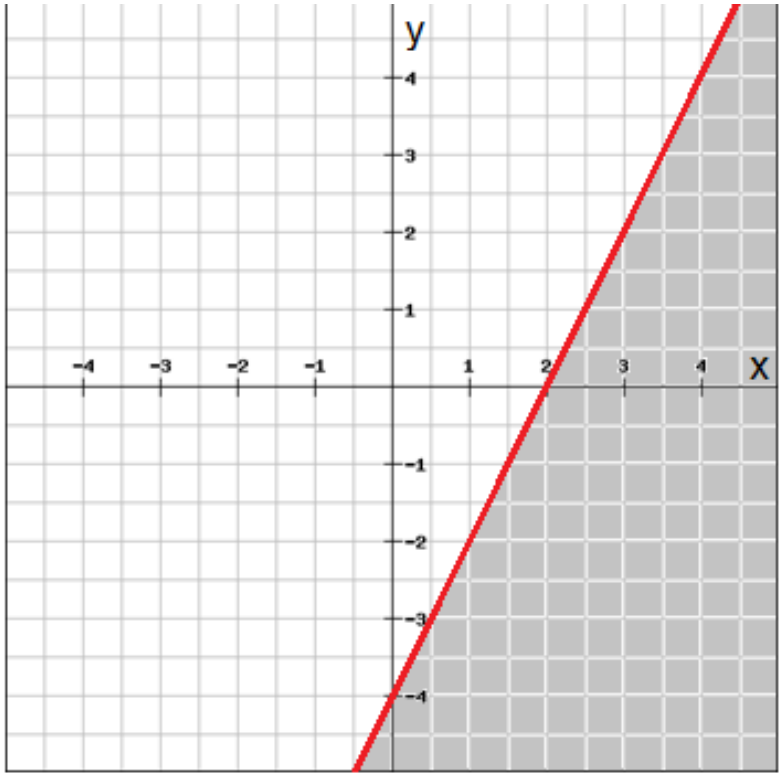

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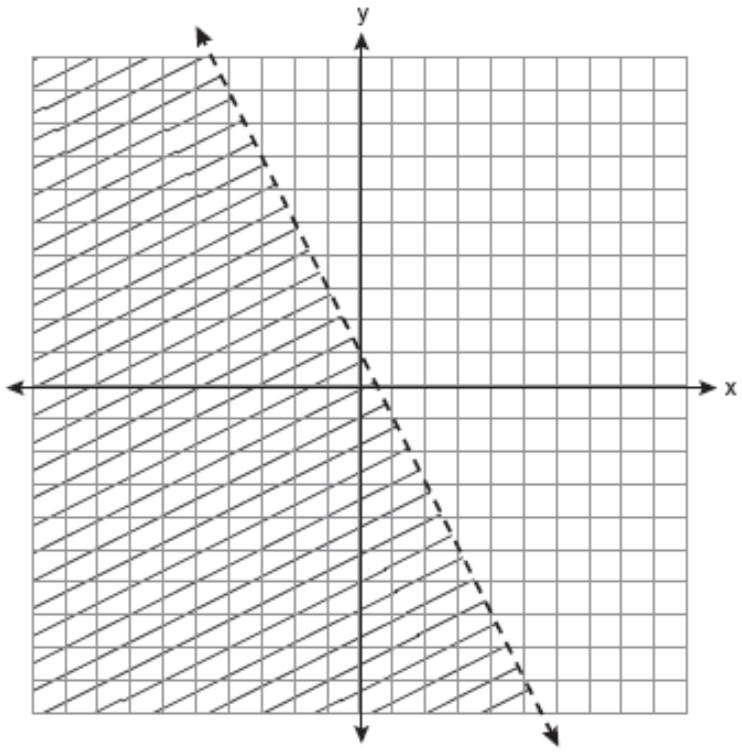

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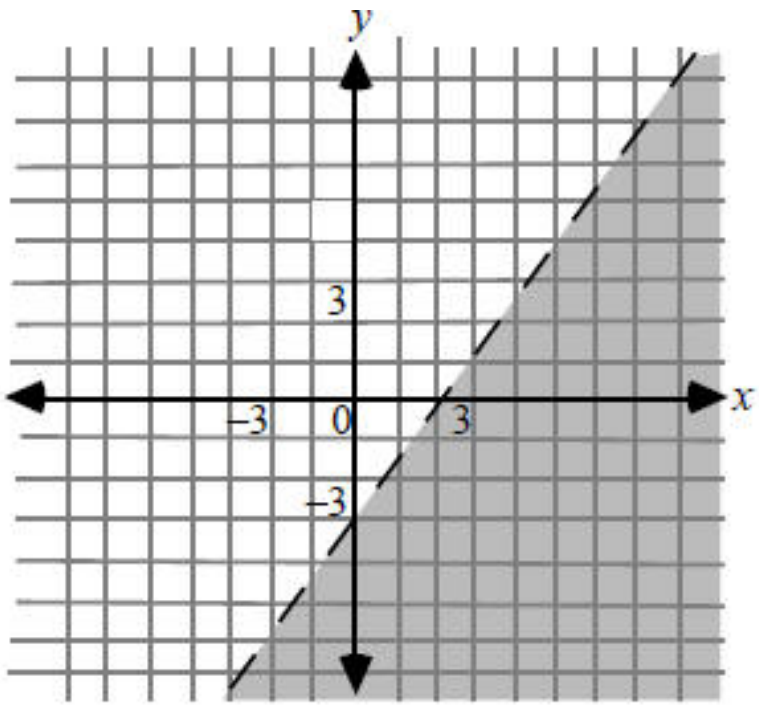

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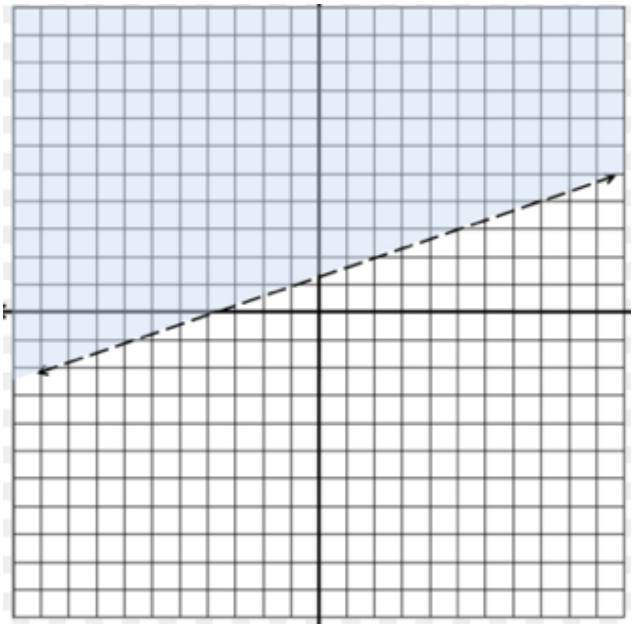

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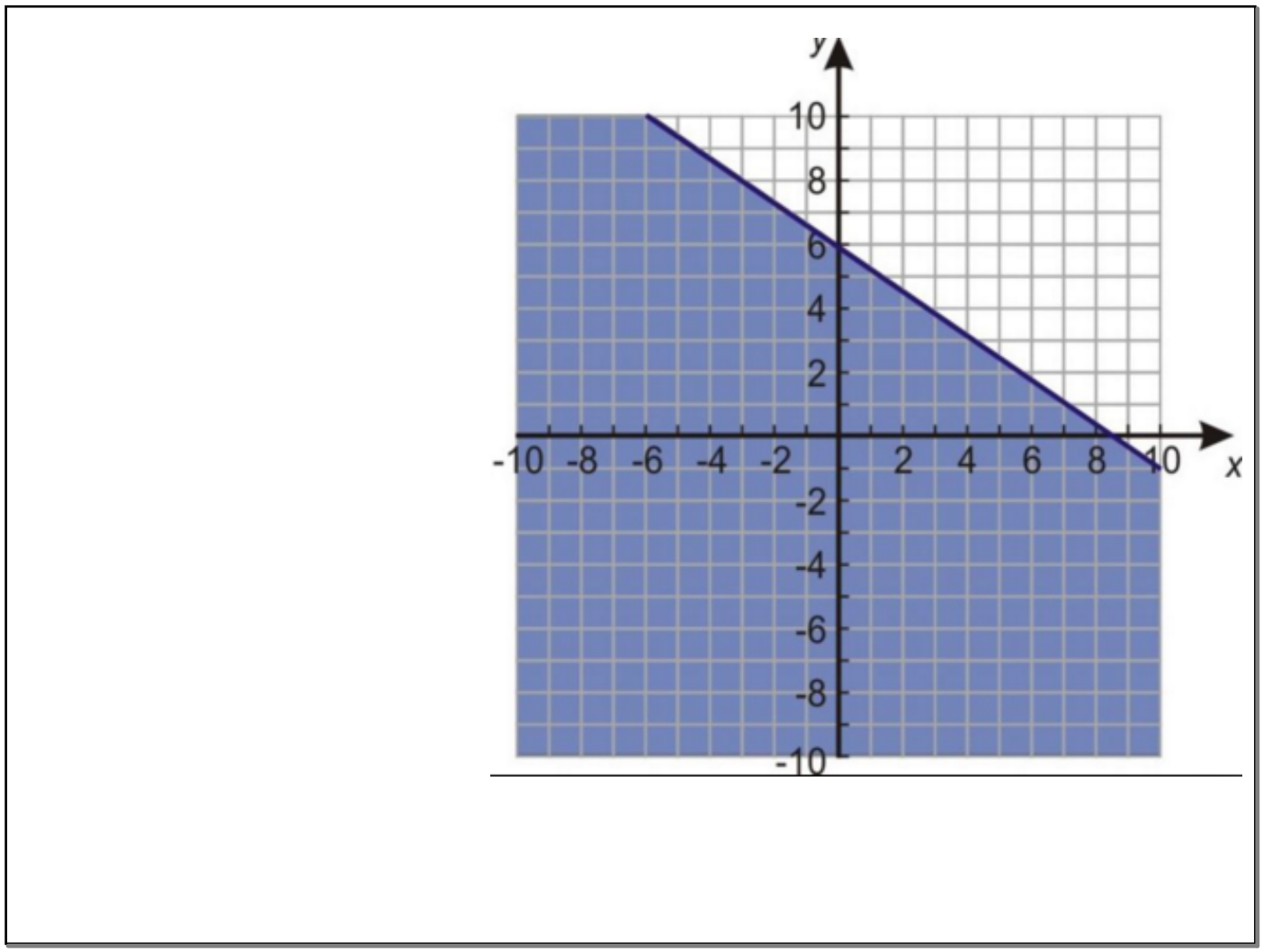
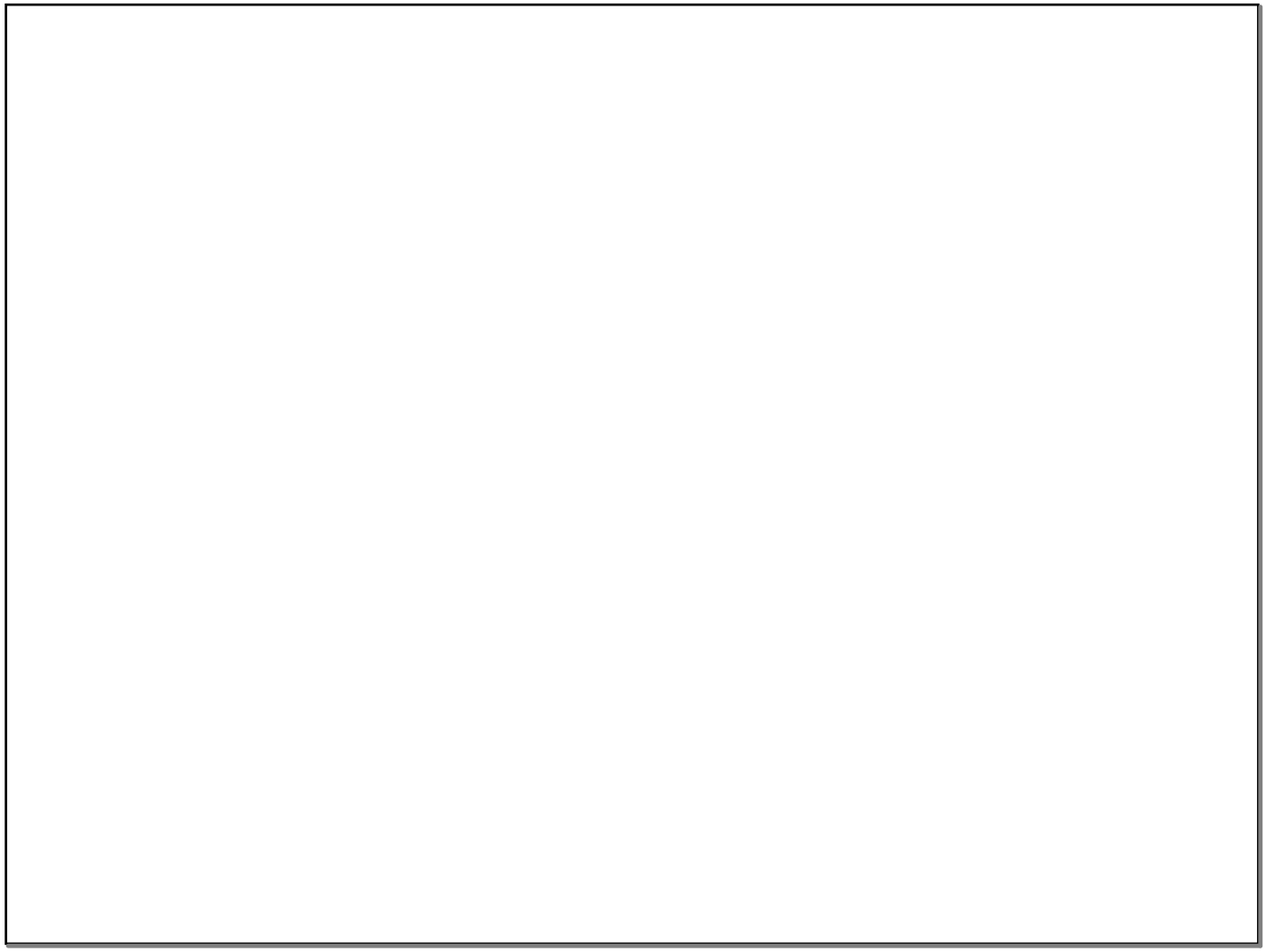
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