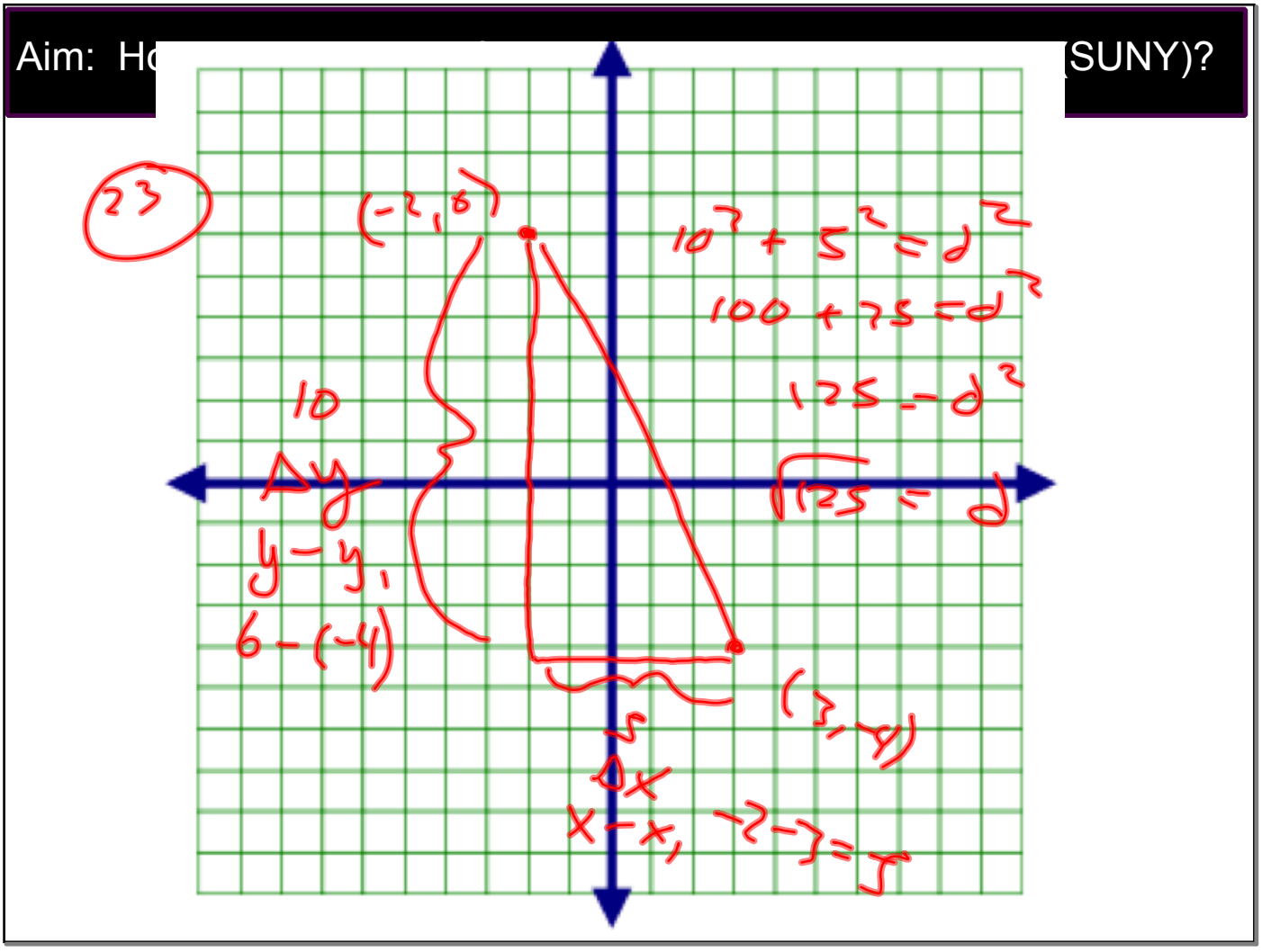
Aim: How do we prepare for the college placement exams (SUNY)?

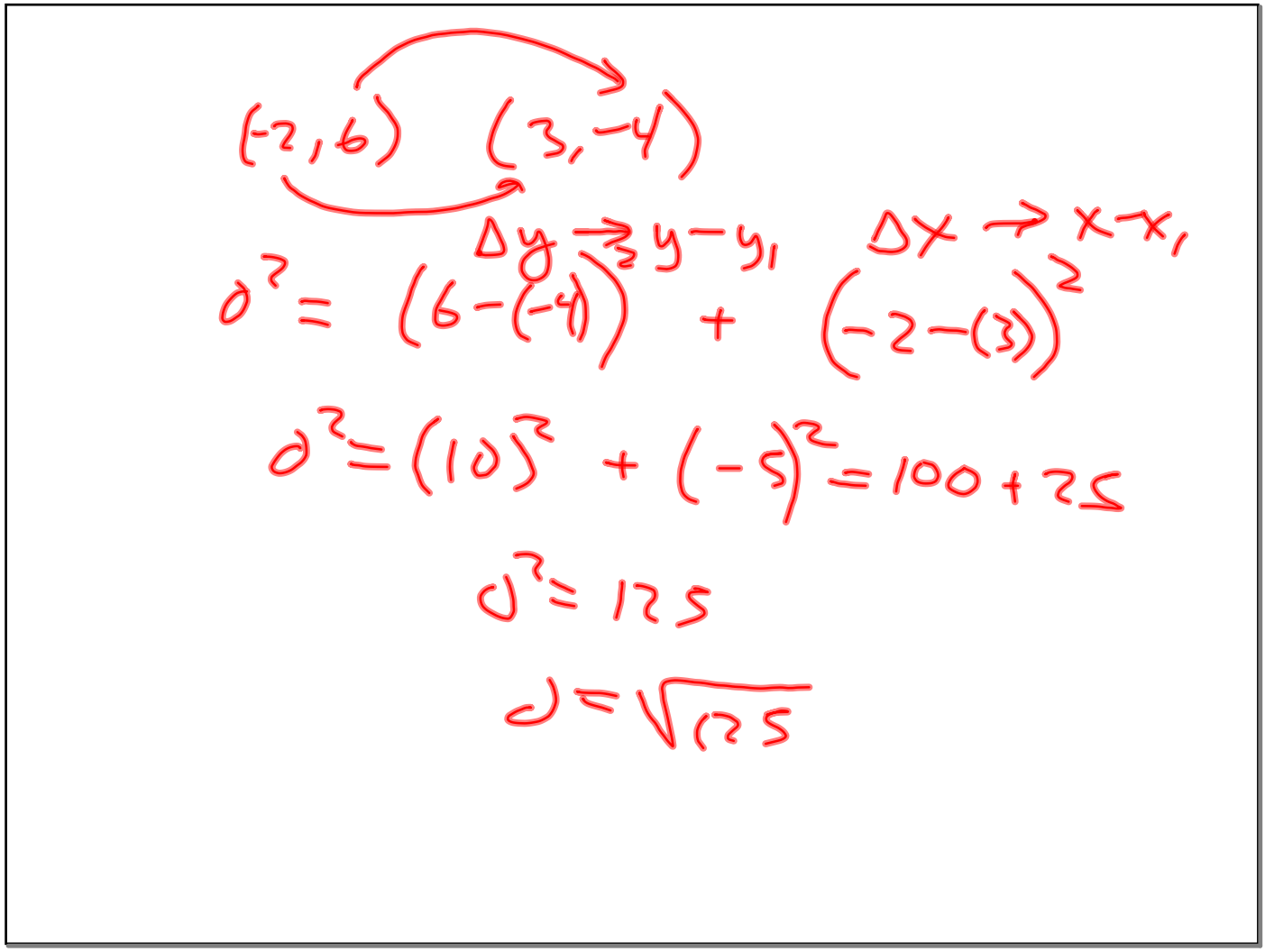
OCW:
1. Finish worksheet
2.

Agenda:
1. Get Ready
2. Mini-lesson
3. Activity
4. Wrap up

Get Ready: Below are sample problems from the SUNY Math Assessment placement exams. Begin the placement exam.

Aim: H (SUNY)?


23
(-2, 6)
$10^2 + 5^2 = d^2$
$100 + 25 = d^2$
$125 = d^2$
$\sqrt{125} = d$
10
Δy
$y - y_1$
$6 - (-4)$
5
Δx
$x - x_1$
$-2 - -7 = 5$
(-7, -4)


(-2, 6) (3, -4)
Δy → y - y1
Δx → x - x1
d² = (6 - (-4))² + (-2 - (3))²
d² = (10)² + (-5)² = 100 + 25
d² = 125
d = √125

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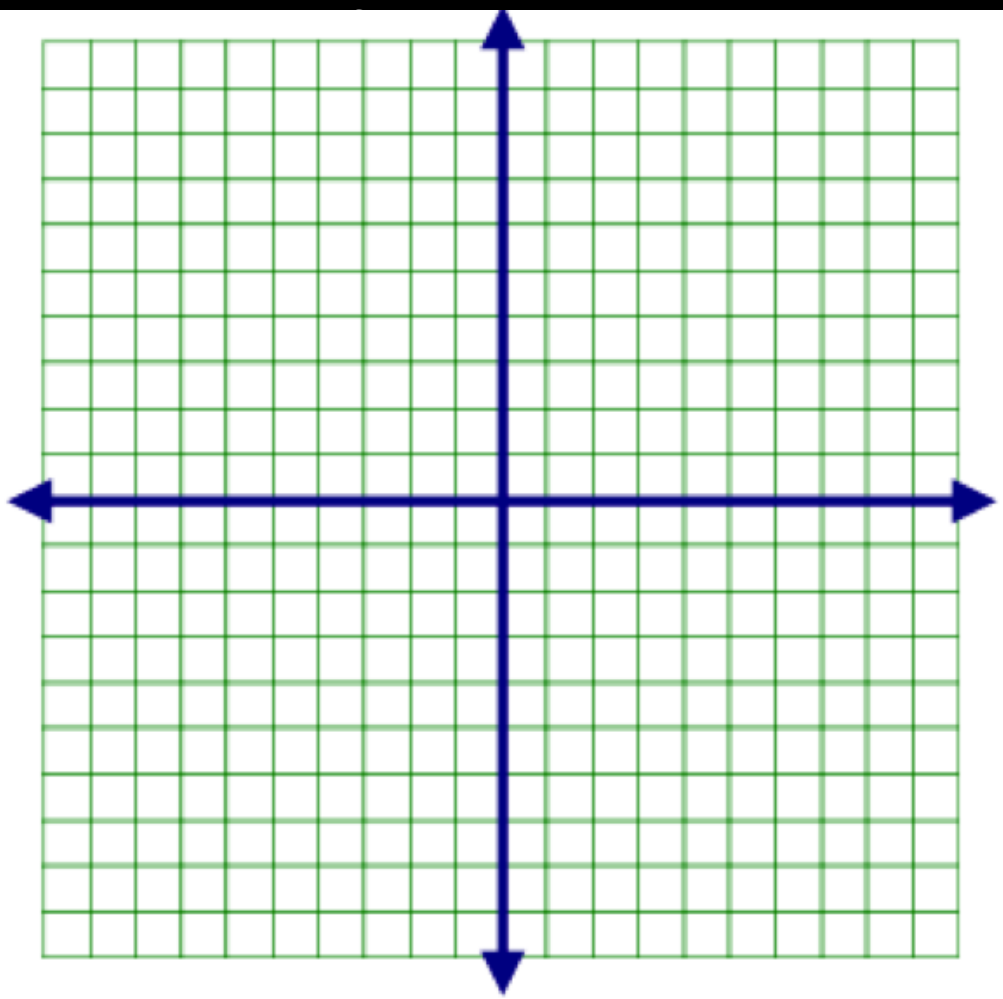

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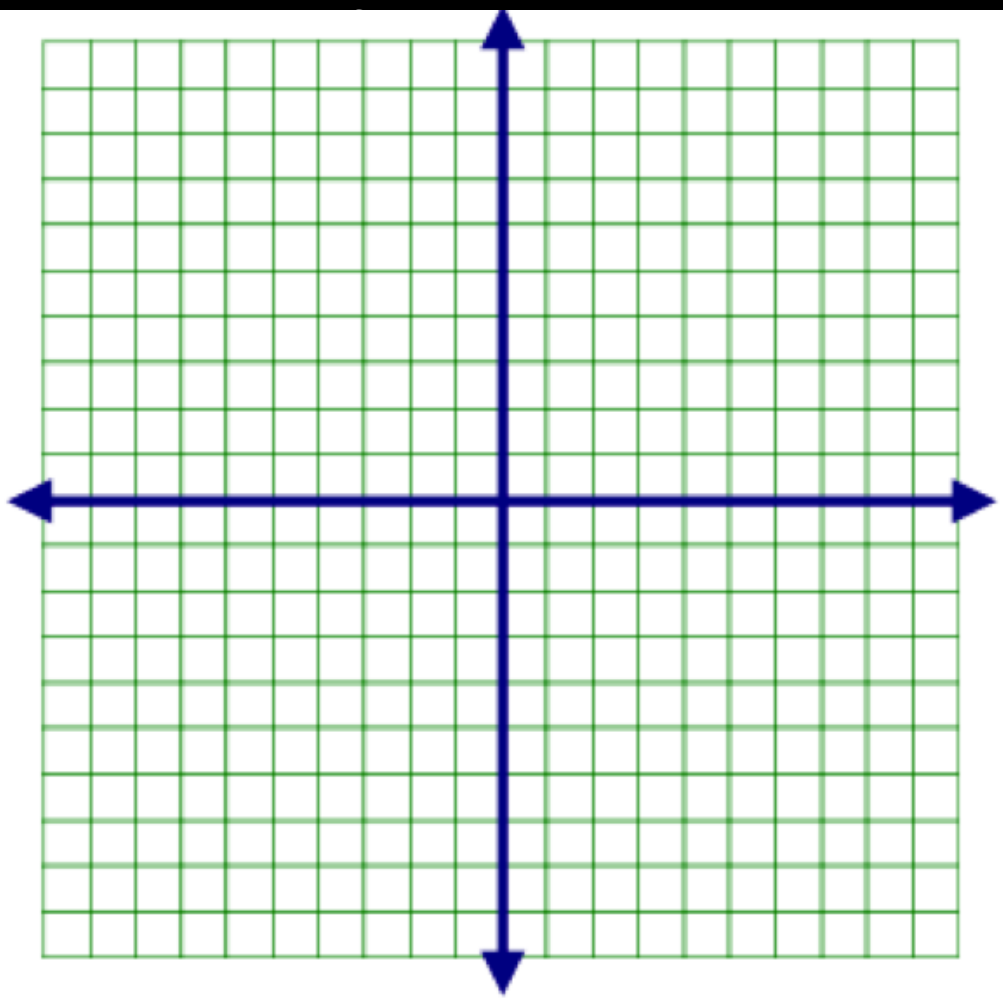

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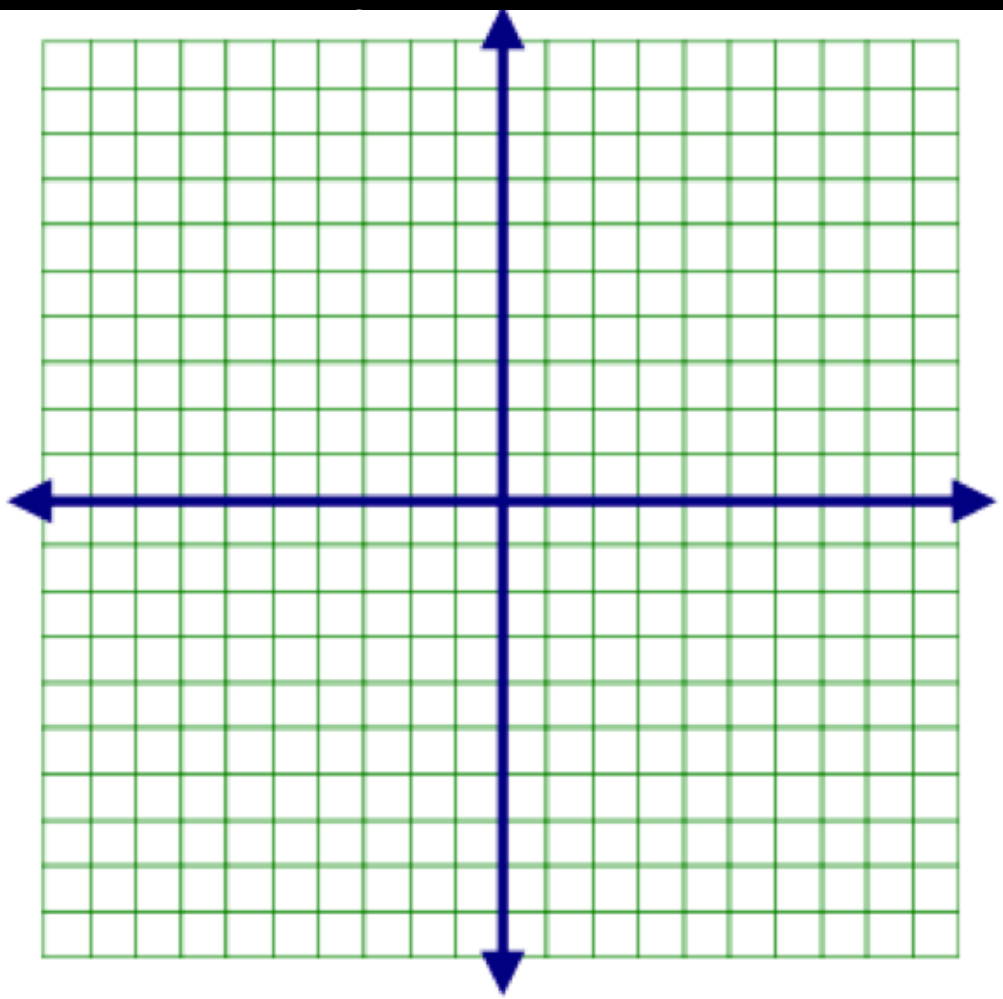

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(20) SYSTEMS OF EQUATIONS
(SIMULTANEOUS EQUATIONS)

→ ELIMINATION OR SUBSTITUTION

$-2(x + 3y = 1)$

$2x - 6y = 2$

① CREATE OPPOSITES
$2x \& -2x$
$6y \& -6y$

$$\begin{array}{r} -2x - 6y = -2 \\ 2x - 6y = 2 \\ \hline -12y = 0 \end{array}$$

$\frac{-12y}{-12} = \frac{0}{-12}$

$y = 0$

$x + 3y = 1$

$x + 3(0) = 1$

$x = 1$

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$x + 3y = 1$ $\quad 2x - 6y = 2$

$-3y \quad -3y$

$x = -3y + 1$

$2(-3y + 1) - 6y = 2$

$-6y + 2 - 6y = 2$

$-2 \quad -2$

$-12y = 0$

$y = 0$

$x + 3y = 1$

$x + 3(0) = 1$

$x = 1$

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(2) $x-5-\sqrt{16x}=0$

$+\sqrt{16x} \quad +\sqrt{16x}$

$(x-5)^2=(\sqrt{16x})^2$ $\quad (x-5-\sqrt{16x})^2$

$(x-5)(x-5)$

$(x-5)^2=16x$

$x^2-10x+25=16x$

$-16x \quad -16x$

$x^2-26x+25=0$

$(x-1)(x-25)=0$

$x-1=0 \quad | \quad x-25=0$

$x=1 \quad | \quad x=25$

$25-5-\sqrt{16\cdot 25}=0$

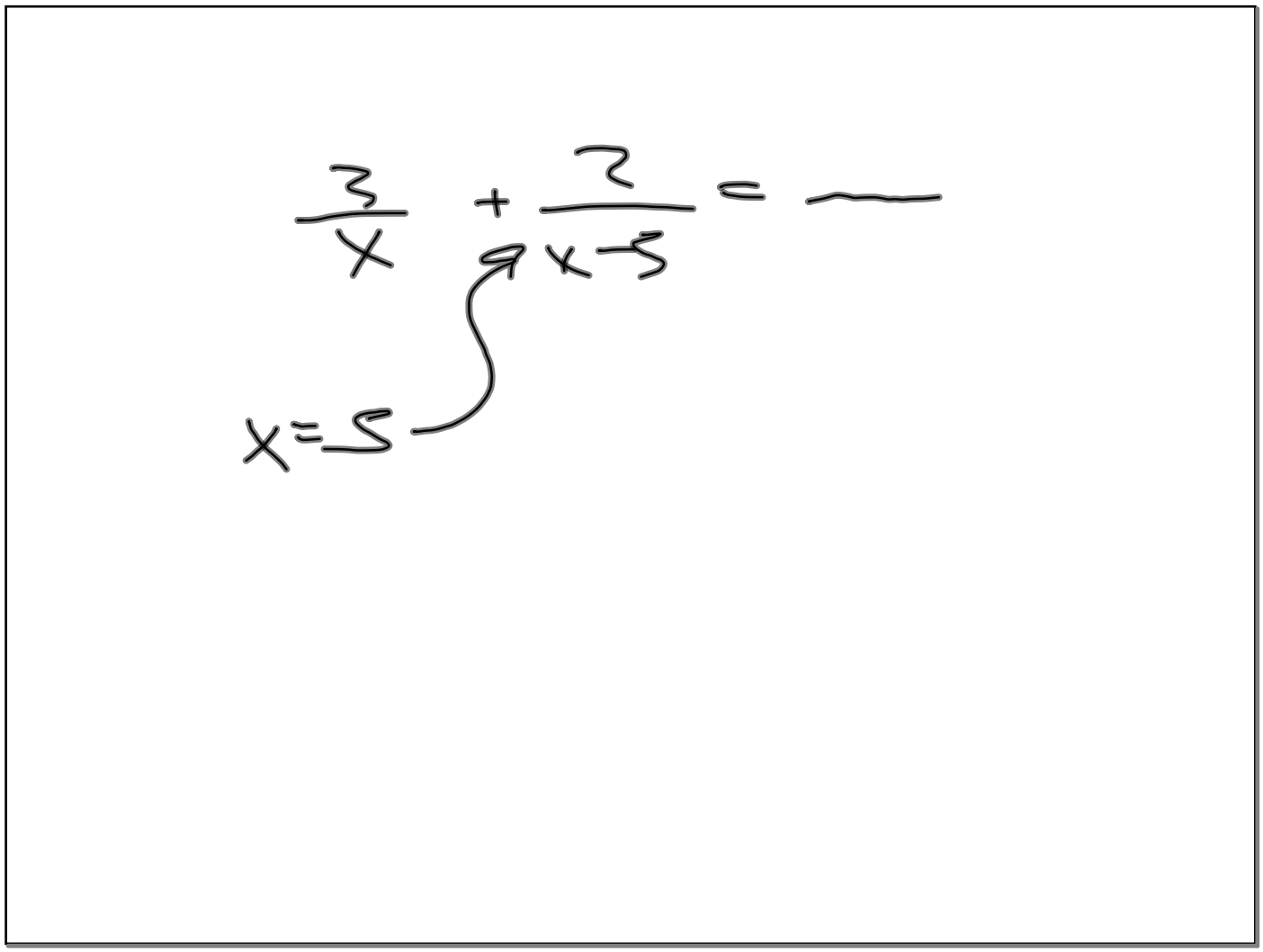
$20-\sqrt{400}=0$ ✓

(1) $5-\sqrt{16\cdot 1}=0$

$-4-4=0$

$-8\neq 0$

EXTRANEOUS


3/x + 2/(x-5) = ——
x=5

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