Who is right?

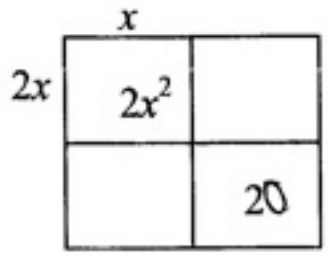
Geometry students are arguing about how to do this homework problem:

Solve the equation $2x^2 - 14x + 20 = 0$ for x.

Stefon starts like this:

$$2x^2 - 14x + 20 = 0$$
$$+14x \quad +14x$$
$$2x^2 + 20 = 14x$$

Katie starts like this:



Miguel starts like this:

$$2x^2 - 14x + 20 = 0$$

$$a = 2 \quad b = -14 \quad c = 20$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Who is correct? How do you know?

Later, Karla and Shirley are arguing over their answers.

Karla says the answer is (5, 0) and (2, 0) Shirley says the answer is $x = 5$ and $x = 2$.

Who is correct? Why? What mistake is one person making?

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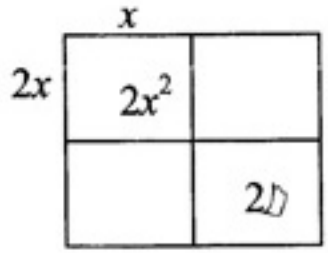

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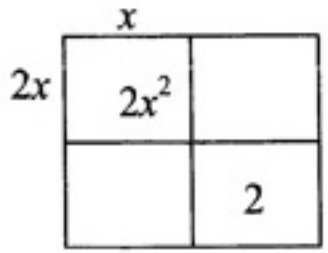

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	x	$+2$
$2x$	$2x^2$	$-4x$
$+10$	$-10x$	20

$(2x + 10)(x + 2) = 0$

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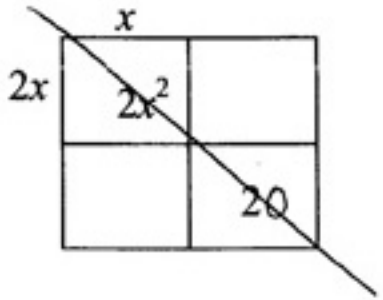

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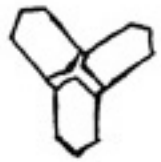

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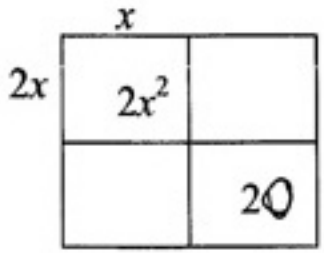

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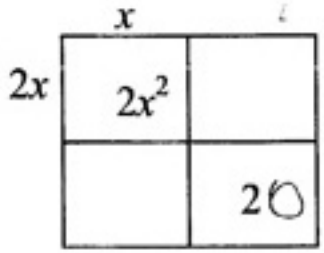

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