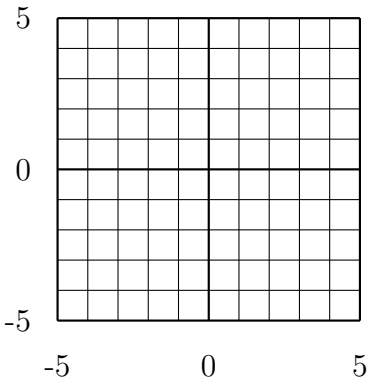
Part 2 of the Test 5 Preparation Saga

Please complete the following problems. These will be *excellent* preparation for the exam.

1. Give the $x-$ and $y-$coordinates of the point below.



2. Simplify the expression $\dfrac{x-12}{x^2-144}$.

3. At what point(s) is the expression given in Problem 2 undefined?

4. Compute the following ordered pairs for the given expression: $-x+3=2y$.

x	y
?	0
0	?
?	1
9	?

5. Solve the equation and check the solution: $1 = \dfrac{4-2x}{x-2}$.

6. Give the value(s) of x at which the following equation is true:
$\dfrac{(x+7)^2}{(x^2-49} \div \dfrac{x^2+14x+49}{(x-7)(x+7)} = 1.$

7. Solve the equation and check its solution: $3 + \dfrac{4}{x} = 5.$

8. The cost of a parrot at a pet shop is 7/3 the price of a dog. If a dog costs 120 dollars, how much does a parrot cost?

9. Two similar triangles A and B have two corresponding sides of length 81 on A and 9 on B. Another side of A has length 27. What is the length of the corresponding side on B?

10. At what point(s) are the following expressions undefined?
$\frac{x+3}{x-10}$, $\frac{x+1}{x^2-1}$, and $\frac{x+1}{x^2+1}$