Solving Rational Equations

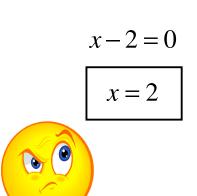
Example: Solve the following rational equation:

$$\frac{x-2}{x-3} = 0$$

Be sure to state any restrictions on the value of x.

$$\frac{x-2}{x-3} = 0, \quad x \neq 3$$

$$(x-3)\frac{x-2}{x-3} = 0(x-3)$$



(Be sure to check that this solution is not a restricted value!)

You try!

1) Solve the following rational equations:

a)
$$\frac{x+3}{x-4} = \frac{x-1}{x+2}$$
 b) $\frac{5}{x+7} = 0$

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2) Vizzini bought a case of Dark Side of the Moon concert T-shirts for \$450. He kept two T-shirts for himself and sold the rest for \$560, making a profit of \$10 on each T-shirt. How many T-shirts were in the case?

