Date:\_\_\_\_\_

## Class worksheet: Alg2H Rational expressions: Solving rational equations (book chapter 6)

$$\frac{2}{X} = \frac{3}{X-4}$$

$$\frac{2}{X} - \frac{3}{X-9} = 0$$

$$\frac{2(X-8-3)X}{X(X-4)} = 0$$

$$\frac{2-(X-4)-3X}{X(X-4)} = 0$$

$$\frac{2-(X-4)-3X}{X(X-4)} = 0$$

$$\frac{2-(X-8)-3X}{X(X-4)} = 0$$

$$\frac{2-(X-8)-3X}{X(X-8)-3X} = 0$$

$$\frac{\chi^{2}}{\chi-2} = \frac{4}{\chi-2} \qquad \chi \neq \lambda$$

$$\frac{\chi^{2}-4}{\chi-2} = 0 \rightarrow \chi^{2}-4 = 0 \rightarrow \chi = +\lambda \text{ or } \chi = -\lambda$$

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$$\frac{1}{X-1} + \frac{1}{X-2} = \frac{1}{(X-1)(X-2)}$$

$$\frac{2X-3}{(X-1)(X-2)} = \frac{1}{(X-1)(X-2)}$$

$$2X-9=0 \Rightarrow X=2 \longrightarrow No + \frac{1}{No + \frac{1}{No$$