EXTRA REVIEW

Quiz 4.1

**Directions:** Show all work in order to receive full credit.

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| 1. Simplify the rational expression below using BOTH using ***long division and synthetic division:***

$$\frac{3x^{3}+4x-1}{x-2}$$ |  |

1. Express in simplest form:

$$\frac{x^{2}-9}{x^{2}+3x-10}÷\frac{3-x}{4x+16}∙\frac{3x-6}{x^{2}+7x+12}$$