Readiness Quiz



Show all your work algebraically for each and simplify. No credit is given without supporting work. There are two sides to this quiz.

1. [5] Simplify the following:

$$\frac{\frac{2}{3} \cdot \frac{4}{5} - 5^{2}}{\frac{25}{3} \cdot \frac{8}{5} - 25}$$

$$\frac{8}{4.5} - 25$$

$$\frac{8}{4.5} - 25$$

$$\frac{8}{15} - 375$$

$$\frac{8}{15} - 375$$

$$\frac{250}{375}$$

$$\frac{375}{15}$$

$$\frac{375}{4.5}$$

$$\frac{375}{375}$$

$$\frac{375}{15}$$

$$\frac{375}{4.5}$$

$$\frac{375}{15}$$

$$\frac{375}{4.5}$$

$$\frac{375}{15}$$

$$\frac{375}{4.5}$$

$$\frac{375}{4.5}$$

$$\frac{375}{4.5}$$

$$\frac{375}{4.5}$$

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$$\frac{6x^2-6}{9x+9} = \frac{6(x^2-1)}{9(x+1)}$$

$$= \frac{6(x+1)(x-1)}{9(x+1)}$$

$$= \frac{6(x+1)(x-1)}{9(x+1)}$$

$$= \frac{6(x-1)}{3\cdot 3}$$

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

2. [3] Use algebra to solve for q in

$$\frac{1}{q+1} - \frac{1}{q+1} = 5$$

$$\frac{1}{q+1} - \frac{1}{q+1} = 6$$

$$\frac{1}{q+1} = 6$$

$$\frac{1}$$

3. [2] Find the slope of the line that contains the points (3,4) and (7,13).

