

Name:
Period:

8.5 Exit Slip

Perform the indicated operation and/or simplify.

1)
$$\frac{-15x}{x^2 - 8x + 16} + \frac{12}{x-4} \cdot \frac{(x-4)}{(x-4)}$$

$$\frac{-15x + 12(x-4)}{(x-4)(x-4)} = \frac{-15x + 12x - 48}{(x-4)(x-4)}$$

$$= \frac{-3x - 48}{(x-4)^2} = \boxed{\frac{-3(x+16)}{(x-4)^2}}$$

2)
$$\frac{\frac{5}{x} \cdot \frac{x+4}{x+4} + \frac{2}{x} \cdot \frac{(x+4)}{(x+4)}}{x}$$

$$\frac{\frac{5}{x+4} + \frac{2}{x} \cdot \frac{x(x+4)}{x+4}}{x(x+4)} = \frac{\frac{5}{x+4} + \frac{2x}{x+4}}{x(x+4)} = \boxed{\frac{5x}{3x+8}}$$

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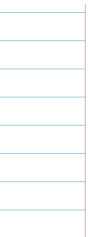
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