Name:
Period:

8.5 Exit Slip

Perform the indicated operation and/or simplify.

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

$(x-4)(x-4)$

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

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

2) $\dfrac{\frac{5}{x+4}}{\frac{x}{x}\cdot\frac{1}{x+4}+\frac{2}{x}\cdot\frac{(x+4)}{(x+4)}}$

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

$= \boxed{\frac{5x}{3x+8}}$

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8.5 Exit Slip

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