Name: Period: Name: Period:

8.5 Exit Slip

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Perform the indicated operation and/or simplify.

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

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

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

$$-\frac{15x}{-4(x-4)}$$

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

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

$$= -\frac{3x-48}{(x-4)^2} = \frac{5}{(x-4)^2}$$

$$= -\frac{5}{x+4}$$

$$= -\frac{3}{x+4}$$

2)
$$\underbrace{\frac{5}{x+4}}_{x}$$
 $\underbrace{\frac{1}{x+4} + \frac{2}{x}}_{x+4}$ $\underbrace{(x+4)}_{(x+4)}$

$$\frac{5}{x+4}$$

$$\frac{1}{x+4} + \frac{2}{x}$$

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

$$\frac{5}{X+4} = \cancel{(X+4)} = \cancel{(X+4)} \times \cancel{(X+4)}$$

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Perform the indicated operation and/or simplify.

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

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$$\frac{\frac{5}{x+4}}{\frac{1}{x+4} + \frac{2}{x}}$$