Exam

Name______________________________

In-class Quiz 5. Each problem is worth 20 points. Accompanying steps must be provided in order to receive full credit for an answer. No use of cell phone as a calculator. SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Perform the indicated operation.
1) \[
\frac{x^2 - 2x}{x^2 - 4} + \frac{x + 4}{x^2 + 6x + 8}
\]

Solve the equation and state the solution set.
2) \[
\frac{2}{t} = \frac{t}{5t - 12}
\]

Solve the equation for the indicated variable.
3) \[
P = \frac{A}{1 + rt} \quad \text{for } r
\]

Perform the indicated operation.
4) \[
\frac{8x + 15}{x + 4} - \frac{4x + 7}{x + 4}
\]

5) \[
\frac{3}{x + 4} - \frac{3}{8x + 32}
\]
Simplify the complex rational expression using either Method I or Method II.

\[
\frac{8x}{35} + \frac{8y}{15}
\]

\[
\frac{8x}{5} - \frac{16y}{3}
\]
Answer Key
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1) x
2) {4, 6}
3) \( r = \frac{A - P}{Pt} \)
4) \( \frac{4x + 8}{x + 4} \)
5) \( \frac{21}{8(x + 4)} \)
6) \( \frac{3x + 7y}{21x - 70y} \)