

Student: _____
Date: _____
Time: _____

Instructor: Fred Khoury
Course: Math 2312-1000 Precalculus (Fall - 2015)
Book: Lial: College Algebra and Trigonometry, 4e

Assignment: Quiz Sec 4.8

1. Find the partial fraction decomposition for the rational expression.

$$\frac{8x - 47}{(x + 2)(x - 5)}$$

- ☐ A. $\frac{9}{x + 2} - \frac{1}{x - 5}$
☐ B. $\frac{8}{x + 2} - \frac{47}{x - 5}$
☐ C. $\frac{1}{x - 5} - \frac{9}{x + 2}$
☐ D. $\frac{9}{x + 2} + \frac{1}{x - 5}$

2. Find the partial fraction decomposition for the rational expression.

$$\frac{11x - 43}{x^2 - 7x + 10}$$

- ☐ A. $\frac{1}{x - 2} + \frac{1}{x - 5}$
☐ B. $\frac{7}{x - 2} + \frac{4}{x - 5}$
☐ C. $\frac{7}{x + 2} + \frac{4}{x + 5}$
☐ D. $\frac{4}{x - 2} + \frac{7}{x - 5}$

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3. Find the partial fraction decomposition for the rational expression.

$$\frac{4x^2 + 2x + 42}{(x^2 - 49)(x - 1)}$$

☐ A. $\frac{5}{x - 7} + \frac{3}{x + 7} - \frac{2}{x - 1}$

☐ B. $\frac{2}{x - 7} + \frac{3}{x + 7} + \frac{1}{x - 1}$

☐ C. $\frac{5}{x^2 - 49} - \frac{1}{x - 1}$

☐ D. $\frac{3}{x - 7} + \frac{2}{x + 7} - \frac{1}{x - 1}$

4. Find the partial fraction decomposition for the rational expression.

$$\frac{-2x^2 + 9x + 44}{(x + 4)^2(3x + 4)}$$

☐ A. $\frac{4}{3x + 4} - \frac{3}{(x + 4)^2} - \frac{2}{x + 4}$

☐ B. $\frac{4}{3x + 4} + \frac{3}{(x + 4)^2} + \frac{2}{x + 4}$

☐ C. $\frac{4}{3x + 4} - \frac{2}{x + 4} + \frac{3}{(x + 4)^2}$

☐ D. $\frac{4}{3x + 4} + \frac{2}{(x + 4)^2} - \frac{3}{x + 4}$

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5. Find the partial fraction decomposition for the rational expression.

$$\frac{4x^3 + 8x^2 - 6x + 2}{2x^2 - x - 1}$$

- ☐ A. $2x - 5 - \frac{13}{2x + 1} + \frac{7}{x - 1}$
- ☐ B. $2x - 5 - \frac{5}{6x + 3} + \frac{1}{3x - 3}$
- ☐ C. $2x + 5 - \frac{13}{6x + 3} + \frac{8}{3x - 3}$
- ☐ D. $2x + 5 - \frac{7}{6x + 3} + \frac{13}{3x - 3}$