In problems 1 and 2, evaluate the given expression. Give your answer as a fraction in lowest terms.

1. \( \frac{2}{4/5} \)

2. \( \frac{7}{1/3 + 1/4} \)

In problem 3, simplify by adding the fractions. Give your answer as a fraction in lowest terms.

3. \( \frac{1}{x+1} + \frac{3}{x-2} \)

In problem 4, solve the given equation.

4. \( \frac{x}{2} - \frac{x}{3} = 5 \)

In problems 5 and 6, multiply the given polynomials.

5. \((x - 3)(x - 5)\)

6. \((x^2 + 4)(x - 2)\)

In problems 7 and 8, factor the given polynomials.

7. \(x^2 - 7x\)

8. \(x^2 + 6x + 8\)

In problem 9, solve the given equation.

9. \((x - 3)(2x - 5) = 0\)

In problem 10, use the quadratic formula to solve the given equation. Round your answer to two decimal places.

\[
x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}
\]

10. \(5x^2 + 3x - 7 = 0\)
Practice Quiz B

In problems 1 and 2, evaluate the given expression. Give your answer as a fraction in lowest terms.

1. \( \frac{3/7}{5} \)

2. \( \frac{\frac{1}{2} + \frac{1}{4}}{3} \)

In problem 3, simplify by adding the fractions. Give your answer as a fraction in lowest terms.

3. \( \frac{3}{x} + \frac{5}{x^2} \)

In problem 4, solve the given equation.

4. \( \frac{2}{x} + \frac{1}{3x} = 2 \)

In problems 5 and 6, multiply the given polynomials.

5. \((x + 2)^2\)

6. \((x + 3y)(x - 2y)\)

In problems 7 and 8, factor the given polynomials.

7. \(x^2 - 9\)

8. \(x^2 - 7x + 12\)

In problem 9, solve the given equation.

9. \(x^2 - x = 6\)

In problem 10, use the quadratic formula to solve the given equation. Round your answer to two decimal places.

\[ x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \]

10. \(2x^2 = 4x + 5\)