Name: .....

MATH MONKS

Adding and Subtracting Rational Expressions

1. $\frac{8}{x-1} - \frac{4x}{2}$

2. $\frac{x-1}{x-1} + \frac{2x+9}{3x+4}$

3. $\frac{8}{2x^2} + \frac{3}{2x^2}$

4. $\frac{6x-12}{3x-6} - \frac{15x-6}{3x-6}$

5. $\frac{3}{x+6} - \frac{4}{x-8}$

6. $\frac{5}{8a} - \frac{2}{8a}$

7. $\frac{5y}{3y^2} - \frac{4}{3y^2}$

8. $\frac{3}{p-5} + \frac{6}{3p-8}$

9. $\frac{2}{m+8} + \frac{4}{m+2}$

10. $\frac{4l}{2l+3} + \frac{7}{2l+3}$

Name: .....

MATH MONKS

Adding and Subtracting Rational Expressions

Answers

1. $\frac{8}{x-1} - \frac{4x}{2}$

$= \frac{-4x^2+4x+16}{2(x-1)}$

2. $\frac{x-1}{x-1} + \frac{2x+9}{3x+4}$

$= \frac{5x^2+8x-13}{3x^2+x-4}$

3. $\frac{8}{2x^2} + \frac{3}{2x^2}$

$= \frac{11}{2x^2}$

4. $\frac{6x-12}{3x-6} - \frac{15x-6}{3x-6}$

$= \frac{-(9x+6)}{(3x-6)}$

5. $\frac{3}{x+6} - \frac{4}{x-8}$

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

6. $\frac{5}{8a} - \frac{2}{8a}$

$= \frac{3}{8a}$

7. $\frac{5y}{3y^2} - \frac{4}{3y^2}$

$= \frac{5y-4}{3y^2}$

8. $\frac{3}{p-5} + \frac{6}{3p-8}$

$= \frac{15p-54}{3p^2-23p+40}$

9. $\frac{2}{m+8} + \frac{4}{m+2}$

$= \frac{6(m+6)}{m^2+10m+16}$

10. $\frac{4l}{2l+3} + \frac{7}{2l+3}$

$= \frac{4l+7}{2l+3}$