

Algebra 2  
Mixed Review for Quiz

Name: \_\_\_\_\_ CLASS COPY \_\_\_\_\_  
Period: \_\_\_\_\_

Solve.

1.  $\frac{1}{3} + \frac{5z}{6} = 2$

2.  $\frac{2}{3} - \frac{5}{m} = \frac{1}{3m}$

3.  $x + \frac{2}{3} = \frac{5x}{6}$

4.  $\frac{2}{p} = \frac{17}{p} - 5$

5.  $3m = \frac{2m}{3} + \frac{3}{4}$

Simplify.

6.  $\frac{45}{10a-10}$

7.  $\frac{x+6}{x^2+5x-6}$

8.  $\frac{v^2-7v-30}{v^2-5v-24}$

9.  $\frac{x^2-11x+18}{x^2+2x-8}$

10.  $\frac{b^2+3b-28}{b^2-49}$

11.  $\frac{6v^3+42v^2}{2v^2+26v+84}$

12.  $\frac{x^3-x^2-42x}{2x^2-20x+42}$

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

14.  $\frac{2v^2+10v-48}{8v+64}$

15.  $\frac{4x^2+10x-6}{2x^2-5x+2}$

16.  $\frac{5}{a} + 2$

17.  $4 + \frac{5a}{2a-3}$

18.  $\frac{5}{x^2-9} + \frac{2}{x-3} + 1$

19.  $\frac{x}{x+2} + \frac{x}{x-2} - 5$

20.  $-3 - \frac{2x}{x-2} + \frac{5x}{x-5}$

21.  $\frac{1}{v+10} \cdot \frac{10v+30}{v+3}$

22.  $\frac{7n}{24n^3-64n^2} \div \frac{7n}{9n-24}$

23.  $\frac{x+7}{7x+35} \cdot \frac{x^2-3x-40}{x-8}$

24.  $\frac{20a^2-100a}{a-1} \div (16a^3-80a^2)$