

**DIRECTIONS:** Simplify.

1.  $\frac{5}{16} - \frac{12}{16} + \frac{3}{16}$

2.  $\frac{1}{2} - \frac{3}{7} + \frac{5}{14}$

3.  $\frac{5}{12} + \frac{5}{18} - \frac{5}{36}$

4.  $\frac{t+2}{3} + \frac{t-4}{6}$

5.  $\frac{z-1}{z} + \frac{z+1}{z^2}$

6.  $\frac{t-4}{2t} - \frac{t-6}{3t}$

7.  $\frac{1}{2pq^4} + \frac{2}{p^3q^2}$

8.  $ab^{-1} - a^{-1}b$

9.  $\frac{a}{bc} + \frac{b}{ac} + \frac{c}{ab}$

10.  $\frac{y-z}{yz} - \frac{z-x}{zx} - \frac{x-y}{xy}$

11.  $\frac{1}{z-4} - \frac{1}{z+4}$

12.  $\frac{1}{t^2+t} + \frac{1}{t^2-t}$

13.  $\frac{1}{x^2-1} - \frac{1}{(x-1)^2}$

14.  $\frac{1}{w^2+2w+1} - \frac{1}{w^2-1}$

15.  $\frac{a+b}{a-b} + \frac{a-b}{a+b} + \frac{b-a}{a-b} + \frac{b-a}{a+b}$

16.  $(x-y)^{-1} - (x+y)^{-1}$

17.  $\frac{3}{x^2-5x+6} + \frac{2}{x^2-4}$

18.  $\frac{1}{2u^2-3uv+v^2} + \frac{1}{4u^2-v^2}$

19.  $\frac{x}{x-a} - \frac{x^2+a^2}{x^2-a^2} + \frac{a}{x+a}$