$\qquad$ Class $\qquad$ Date $\qquad$

## Practice 11-4

Add or subtract.

1. $\frac{3 x}{4}-\frac{x}{4}$
2. $\frac{3}{x}+\frac{5}{x}$
3. $\frac{5 x}{6}-\frac{2 x}{3}$
4. $\frac{x}{3}+\frac{x}{5}$
5. $\frac{3 m}{4}+\frac{5 m}{12}$
6. $\frac{4 x}{7}-\frac{3 x}{14}$
7. $\frac{6}{7 t}-\frac{3}{7 t}$
8. $\frac{d}{3}+\frac{4 d}{3}$
9. $\frac{7}{2 d}-\frac{3}{2 d}$
10. $\frac{3}{2 d^{2}}+\frac{4}{3 d}$
11. $\frac{9}{m+1}-\frac{6}{m-1}$
12. $\frac{3}{x}-\frac{7}{x}$
13. $\frac{7 a}{6}+\frac{a}{6}$
14. $\frac{4}{k+3}-\frac{8}{k+3}$
15. $\frac{3}{4 z^{2}}+\frac{7}{4 z^{2}}$
16. $\frac{6}{x^{2}-1}+\frac{7}{x-1}$
17. $\frac{2 x}{x^{2}-1}-\frac{3}{x+1}$
18. $\frac{3 t}{8}+\frac{3 t}{8}$
19. $\frac{4}{3 a^{2}}-\frac{1}{2 a^{3}}$
20. $\frac{4}{a+4}+\frac{6}{a+4}$
21. $\frac{4}{x+3}+\frac{6}{x-2}$
22. $\frac{6}{7 t^{3}}-\frac{8}{3 t}$
23. $\frac{3}{2 x+6}+\frac{4}{6 x+18}$
24. $\frac{5}{8 a}-\frac{3}{8 a}$
25. $\frac{5}{r^{2}-4}+\frac{7}{r+2}$
26. $\frac{6}{a^{2}-2}+\frac{9}{a^{2}-2}$
27. $\frac{5 x}{4}-\frac{x}{4}$
28. $\frac{4}{3 x+6}-\frac{3}{2 x+4}$
29. $\frac{4}{c^{2}+4 c+3}+\frac{1}{c+3}$
30. $\frac{6}{x^{2}-3 x+2}-\frac{4}{x-2}$
31. Brian rode his bike 2 mi to his friend's house. Brian's bike had a flat tire, so he had to walk home. His walking rate is $25 \%$ of his biking rate.
a. Write an expression for the amounts of time Brian spent walking and riding his bike.
b. If Brian's biking rate is $12 \mathrm{mi} / \mathrm{h}$, how much time did he spend walking and riding his bike?
32. Trudi and Sean are on a river canoeing. Because of the current of the river, their downstream rate is $250 \%$ of their upstream rate. They canoe 3 mi upstream and then return to their starting point.
a. Write an expression for the amount of time Trudi and Sean spend canoeing.
b. If their upstream rate is $2 \mathrm{mi} / \mathrm{h}$, how much time do Trudi and Sean spend canoeing?
c. If their upstream rate is $3 \mathrm{mi} / \mathrm{h}$, how much time do Trudi and Sean spend canoeing?
