Practice 11-4	Adding and Subtracting Rational Expressions	
Add or subtract.		
<b>1.</b> $\frac{3x}{4} - \frac{x}{4}$	<b>2.</b> $\frac{3}{x} + \frac{5}{x}$	<b>3.</b> $\frac{5x}{6} - \frac{2x}{3}$
<b>4.</b> $\frac{x}{3} + \frac{x}{5}$	<b>5.</b> $\frac{3m}{4} + \frac{5m}{12}$	<b>6.</b> $\frac{4x}{7} - \frac{3x}{14}$
<b>7.</b> $\frac{6}{7t} - \frac{3}{7t}$	8. $\frac{d}{3} + \frac{4d}{3}$	<b>9.</b> $\frac{7}{2d} - \frac{3}{2d}$
<b>10.</b> $\frac{3}{2d^2} + \frac{4}{3d}$	<b>11.</b> $\frac{9}{m+1} - \frac{6}{m-1}$	<b>12.</b> $\frac{3}{x} - \frac{7}{x}$
<b>13.</b> $\frac{7a}{6} + \frac{a}{6}$	<b>14.</b> $\frac{4}{k+3} - \frac{8}{k+3}$	<b>15.</b> $\frac{3}{4z^2} + \frac{7}{4z^2}$
<b>16.</b> $\frac{6}{x^2-1} + \frac{7}{x-1}$	<b>17.</b> $\frac{2x}{x^2-1} - \frac{3}{x+1}$	<b>18.</b> $\frac{3t}{8} + \frac{3t}{8}$
<b>19.</b> $\frac{4}{3a^2} - \frac{1}{2a^3}$	<b>20.</b> $\frac{4}{a+4} + \frac{6}{a+4}$	<b>21.</b> $\frac{4}{x+3} + \frac{6}{x-2}$
<b>22.</b> $\frac{6}{7t^3} - \frac{8}{3t}$	<b>23.</b> $\frac{3}{2x+6} + \frac{4}{6x+18}$	<b>24.</b> $\frac{5}{8a} - \frac{3}{8a}$
<b>25.</b> $\frac{5}{r^2-4} + \frac{7}{r+2}$	<b>26.</b> $\frac{6}{a^2-2} + \frac{9}{a^2-2}$	<b>27.</b> $\frac{5x}{4} - \frac{x}{4}$
<b>28.</b> $\frac{4}{3x+6} - \frac{3}{2x+4}$	<b>29.</b> $\frac{4}{c^2+4c+3} + \frac{1}{c+3}$	<b>30.</b> $\frac{6}{x^2 - 3x + 2} - \frac{4}{x - 2}$

- **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 mi/h, how much time did he spend walking and riding his bike?
- Trudi and Sean are on a river canoeing. Because of the current of the 32. 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 mi/h, how much time do Trudi and Sean spend canoeing?
  - c. If their upstream rate is 3 mi/h, how much time do Trudi and Sean spend canoeing?

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