Sec 11-6 Part II   WS 4

Guided Practice

Find the LCD for each pair of rational expressions.

3. $\dfrac{3}{x^2}, \dfrac{5}{x}$

4. $\dfrac{4}{a^2b}, \dfrac{3}{ab^2}$

5. $\dfrac{4}{15m^2}, \dfrac{7}{18mb^2}$

6. $\dfrac{6}{a+6}, \dfrac{7}{a+7}$

7. $\dfrac{5}{x-3}, \dfrac{4}{x+3}$

8. $\dfrac{9}{2x-8}, \dfrac{10}{x-4}$

Find each sum or difference.

9. $\dfrac{7}{15m^2} + \dfrac{3}{5m}$

10. $\dfrac{2}{x+3} + \dfrac{3}{x-2}$

11. $3x + 6 - \dfrac{9}{x+2}$

12. $\dfrac{m+2}{m^2+4m+3} - \dfrac{6}{m+3}$

13. $\dfrac{11}{3y^2} - \dfrac{7}{6y}$

14. $\dfrac{4}{2g-7} + \dfrac{5}{3g+1}$

15. **Parades** At the Veteran's Day parade, the local members of the Veterans of Foreign Wars (VFW) found that they could arrange themselves in rows of 6, 7, or 8, with no one left over. What was the least number of VFW members in the parade?

EXERCISES

Practice

Find each sum or difference.

16. $\dfrac{m}{4} + \dfrac{3m}{5}$

17. $\dfrac{x}{7} - \dfrac{2x}{9}$

18. $\dfrac{m+1}{m} + \dfrac{m-3}{3m}$

19. $\dfrac{7}{x} + \dfrac{3}{xyz}$

20. $\dfrac{7}{6a^2} - \dfrac{5}{3a}$

21. $\dfrac{2}{st^2} - \dfrac{3}{s^2t}$

Find each sum or difference.

22. $\dfrac{3}{7m} + \dfrac{4}{5m^2}$

23. $\dfrac{3}{z+5} + \dfrac{4}{z-4}$

24. $\dfrac{d}{d+4} + \dfrac{3}{d+3}$

25. $\dfrac{k}{k+5} - \dfrac{2}{k+3}$

26. $\dfrac{3}{y-3} - \dfrac{y}{y+4}$

27. $\dfrac{10}{3r-2} - \dfrac{9}{r-5}$

28. $\dfrac{4}{3a-6} + \dfrac{a}{2+a}$

29. $\dfrac{5}{2m-3} - \dfrac{m}{6-4m}$

30. $\dfrac{b}{3b+2} + \dfrac{2}{9b+6}$

31. $\dfrac{w}{5w+2} - \dfrac{4}{15w+6}$

32. $\dfrac{h-2}{h^2+4h+4} + \dfrac{h-2}{h+2}$

33. $\dfrac{n+2}{n^2+4n+3} - \dfrac{6}{n+3}$

34. $\dfrac{a}{5-a} - \dfrac{3}{a^2-25}$

35. Find the difference when $\dfrac{2}{t+3}$ is subtracted from $\dfrac{3}{10t-9}$.

36. Find the sum of $\dfrac{2y}{y^2+7y+12}$ and $\dfrac{y+2}{y+4}$.

37. Find the sum of $\dfrac{2}{v+4}$, $\dfrac{v}{v-1}$, and $\dfrac{5v}{v^2+3v-4}$.