

# Simplify using factorization

Please note these questions were found on: <http://www.mhhe.com>

$$25. \frac{3x - 6}{5x - 15}$$

$$26. \frac{x^2 - 25}{3x - 15}$$

$$27. \frac{6a - 24}{a^2 - 16}$$

$$28. \frac{5x - 5}{x^2 - 4}$$

$$29. \frac{x^2 + 3x + 2}{5x + 10}$$

$$30. \frac{4w^2 - 20w}{w^2 - 2w - 15}$$

$$31. \frac{x^2 - 6x - 16}{x^2 - 64}$$

$$32. \frac{y^2 - 25}{y^2 - y - 20}$$

$$33. \frac{2m^2 + 3m - 5}{2m^2 + 11m + 15}$$

$$34. \frac{6x^2 - x - 2}{3x^2 - 5x + 2}$$

$$35. \frac{p^2 + 2pq - 15q^2}{p^2 - 25q^2}$$

$$36. \frac{4r^2 - 25s^2}{2r^2 + 3rs - 20s^2}$$

$$37. \frac{2x - 10}{25 - x^2}$$

$$38. \frac{3a - 12}{16 - a^2}$$

Please note that only some of the answers are provided below

15.  $5x^2y$

17.  $\frac{-2m^2}{3n}$

19.  $\frac{b^2}{2a^2}$

21.  $\frac{-r}{2st^2}$

23.  $\frac{3}{5}$

25.  $\frac{3(x - 2)}{5(x - 3)}$

27.  $\frac{6}{a + 4}$

29.  $\frac{x + 1}{5}$

31.  $\frac{x + 2}{x + 8}$

33.  $\frac{m - 1}{m + 3}$

35.  $\frac{p - 3q}{p - 5q}$

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

39.  $\frac{-a - 5}{a + 6}$

41.  $\frac{-x - 3y}{2y + x}$

43.  $x + 2$

45.  $\frac{-(y + 4)}{y + 3}$