

$$39. \frac{x(x-18)}{6(5x+2)}, x \neq 0$$

$$40. \frac{5(15x-2)}{x(x+20)}$$

$$41. -\frac{3}{4x}, x \neq \frac{5}{2}$$

$$42. \frac{8x(x+1)}{(5x+3)(x-2)}, x \neq -1, x \neq 0$$

$$43. \frac{x-4}{12(x-6)(x-1)}, x \neq -1, x \neq 4$$

$$44. \frac{3x}{4(x-1)}, x \neq -2, x \neq 2$$

$$46. R_t = \frac{R_1 R_2}{R_2 + R_1}, R_1 \neq 0, R_2 \neq 0; \text{ about } 1474 \text{ ohms}$$

$$57. 1 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2}}}}}, 1 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2}}}}};$$

1.4, about 1.4167, about 1.4138, about 1.4143,
about 1.4142; $\sqrt{2}$