

62. 94. 63. $\frac{1}{x^2-1}$. 64. $\frac{ac}{b}x^2 - \frac{b}{c}x$.
 65. $x=2\frac{1}{2}$. 66. (1) $(x^2+1)(x+5)$. (2) $(x-19y)(x+17y)$.
 67. $x=24, y=9, z=5$. 68. $\frac{2x}{x+5y}$. 69. $(2a-3b+2c)^2$.
 70. 3. 71. $x^2+y^2+z^2$. 72. $-2ab$.
 73. 6. 74. (1) $3x(x+9)(x-7)$. (2) $(a+b+1)(a+b)$.
 75. $x=\frac{qr}{p^2+q^2}, y=\frac{pr}{p^2+q^2}$. 76. $\frac{2x^2}{8x^2-y^2}$.
 77. $x=8$. 78. $\frac{x^2+x^2-2}{2x^2+2x+1}$. 79. $\frac{2}{(1-x^2)^2}$.
 80. 640. 81. $1-4x-\frac{46}{15}x^2+\frac{10}{3}x^3$.
 82. $\frac{1}{2}$. 83. $\frac{3}{4}x^5-4x^4+\frac{77}{8}x^3-\frac{43}{4}x^2-\frac{33}{4}x+27$.
 84. $2a^2b^2(a-2b)^2(2a+b)^2$. 85. $x=5$.
 86. $\frac{5x^2-4x-8}{3x^2+4x+24}$. 87. $2a^2+3a+\frac{3}{a}$. 88. $x=2ab, y=3ab$.
 89. $3(2x-y)(5x+4y)$. 90. 25 ten-cent pieces, 30 quarters. 91. 0.
 92. $x^2-x^2+\frac{5}{3}x-\frac{23}{9}$. Rem. $-\frac{163}{9}$. 93. $60(p^2-q^2)$.
 94. (1) $(a-2b^2)(a^2+2ab^2+4b^4)$. (2) $(x^2+x-1)(x^2-x+1)$.
 95. $x=a-2b$. 96. (1) $\frac{7bc}{13a^2}$. (2) $\frac{y(y^2-y+2)}{2(y+5)}$.
 97. $x=1, y=-1, z=0$. 98. $\frac{(y+1)(y-5)}{(y-1)(y-6)}$.
 99. $\frac{2a-3b+c}{2a-3c}$. 100. Twelve minutes past four.
 101. (1) $5\frac{1}{6}$. (2) -1 . 102. (1) $\frac{2(a+x)}{a^2+ax+x^2}$. (2) $1+x-x^2$.
 103. $a^3-3a+\frac{3}{a}-\frac{1}{a^3}$; $a-\frac{1}{a}$. 104. $1-5x+15x^2-45x^3$.
 105. \$300. 106. $(2a-3b)(a+b)$.
 107. (1) 2 or $\frac{7}{5}$. (2) $\frac{5}{2}$ or $\frac{4}{3}$. 109. $7x^2-\frac{c}{5}+3$.
 110. $\frac{3}{2a^2}$. 111. $\frac{3x^2+7x-12}{(x^2-9)(x^2-16)}$; $\frac{1}{(x-3)(x-4)}$.
 112. H.C.F. $x-5b$. L.C.M. $6(x+3a)(x-3a)(x-5b)$.