

$$\#1: \frac{x + 3}{x^2 + 4 \cdot x + 3}$$

$$\#2: \frac{1}{x + 1}$$

$$\#3: \frac{2 \cdot b^3 + 1458}{b^2 - 9 \cdot b + 81}$$

$$\#4: 2 \cdot (b + 9)$$

$$\#5: \frac{8 \cdot c^3 \cdot d - 4 \cdot c^2 \cdot d}{4 \cdot d^2 \cdot c - 4 \cdot c \cdot d^3}$$

$$\#6: \frac{c \cdot (2 \cdot c - 1)}{d \cdot (1 - d)}$$

$$\#7: \text{FACTOR}(x^3 + 22 \cdot x^2 + 159 \cdot x + 378, \text{Radical}, x)$$

$$\#8: (x + 6) \cdot (x + 7) \cdot (x + 9)$$

$$\#9: \text{FACTOR}(x^4 - 82 \cdot x^2 + 81, \text{Radical}, x)$$

$$\#10: (x + 1) \cdot (x - 1) \cdot (x + 9) \cdot (x - 9)$$

$$\#11: \text{FACTOR}(x^2 - 7 \cdot x - b \cdot x + 7 \cdot b, \text{Radical}, x)$$

$$\#12: (x - 7) \cdot (x - b)$$

$$\#13: \text{EXPAND}(x \cdot (x + 1) \cdot (x + 9), \text{Radical}, x)$$

$$\#14: x^3 + 10 \cdot x^2 + 9 \cdot x$$

$$\#15: \text{EXPAND}((x^2 - a^3) \cdot (x^2 - a^2) \cdot (x + a), \text{Radical}, x)$$

$$\#16: x^5 + a \cdot x^4 - x^3 \cdot (a^3 + a^2) - a^3 \cdot x^2 \cdot (a + 1) + a^5 \cdot x + a^6$$

$$\#17: \text{EXPAND}((t + 3)^2 \cdot (2 \cdot t + 1), \text{Radical}, t)$$

$$\#18: 2 \cdot t^3 + 13 \cdot t^2 + 24 \cdot t + 9$$