

CALCULUS

Functions and expressions

OLD2

0020-1. Compute $[(5/9)(F - 32)]_{F: \rightarrow -40}$.

0020-2. Compute $[(5/9)(F - 32)]_{F: \rightarrow -40}^{F: \rightarrow 10}$.

0020-3. Compute $[(5/9)x + 2,000,000]_{x: \rightarrow -40}^{x: \rightarrow 10}$.

0020-4. Let $f(x) = \sqrt{x + 5}$, $g(x) = x^3 / (x - 1)$.

- Find the domain of f .
- Find the domain of g .
- Find the domain of $f + g$.
- Find the domain of fg .
- Find the domain of f/g .
- Find the domain of g/f .

0020-5. Collect terms in

OLD2

$$2x^5 - 3x^2 - 2 - x + 5x + 5x^5 - 4x - x^5 - 7x^2 + 4$$

and display this polynomial
with terms in decreasing degree.

0020-6. Solve for x in:

OLD2

$$\frac{2x + 3 - 6x}{2} = 8(5x + 2x + 3)$$