

CALCULUS

Functions and expressions

OLD

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

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

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

0020-4. Let $f(x) = \sqrt{x + 100}$, $g(x) = x^2/x$.

- 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

OLD

$$2x^4 - 3x^2 - x + 5 + x^5 - 8x - 7x^2 - x^4$$

and display this polynomial
with terms in decreasing degree.

0020-6. Solve for x in:

OLD

$$\frac{x + 8 - 2x}{7} = 9(5 + 2x + 8)$$