

Welding Principles and Applications 7th Edition Chapter 3

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Although not required, there are other ways to identify processes that are [eligible for](#) [SBA 8\(a\) support](#).

1. **Definition of a function**: A function is a rule that assigns to each element x in a set X exactly one element y in a set Y . The set X is called the domain and the set Y is called the codomain.
2. **Notation**: A function f from X to Y is denoted by $f: X \rightarrow Y$. The value of f at x is denoted by $f(x)$.
3. **Properties of functions**: A function f is said to be injective (one-to-one) if $f(x) = f(y)$ implies $x = y$. A function f is said to be surjective (onto) if for every y in Y , there exists an x in X such that $f(x) = y$. A function f is said to be bijective (one-to-one and onto) if it is both injective and surjective.
4. **Composition of functions**: If $f: X \rightarrow Y$ and $g: Y \rightarrow Z$ are functions, then the composition of f and g , denoted by $g \circ f$, is a function from X to Z defined by $(g \circ f)(x) = g(f(x))$.
5. **Inverse functions**: If $f: X \rightarrow Y$ is a bijective function, then there exists a unique function $f^{-1}: Y \rightarrow X$ such that $f^{-1}(f(x)) = x$ for all x in X and $f(f^{-1}(y)) = y$ for all y in Y . The function f^{-1} is called the inverse of f .
6. **Limit and continuity**: A function f is said to be continuous at a point a in its domain if $\lim_{x \rightarrow a} f(x) = f(a)$. A function f is said to be continuous on a set S if it is continuous at every point in S .
7. **Derivatives**: The derivative of a function f at a point a is denoted by $f'(a)$ and is defined as $f'(a) = \lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$. The derivative of f is a function f' that maps each point a in the domain of f to $f'(a)$.
8. **Integration**: The integral of a function f over an interval $[a, b]$ is denoted by $\int_a^b f(x) dx$ and is defined as the limit of a sum of areas of rectangles.
9. **Differential equations**: A differential equation is an equation involving a function and its derivatives. The general form of a differential equation is $y' = f(x, y)$, where y is the function and x is the independent variable.
10. **Series and sequences**: A sequence is a list of numbers $a_1, a_2, a_3, \dots$. A series is the sum of the terms of a sequence, denoted by $\sum_{n=1}^{\infty} a_n$. A series is said to converge if the partial sums $S_n = \sum_{k=1}^n a_k$ approach a limit L as n goes to infinity.

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Iron and Steel Institute



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