$$(a+$$

 $b)^n$

n

(1)
$$\sum_{k=1}^{n} k$$
(2)
$$\sum_{k=1}^{n} k^{2}$$
(3)
$$\sum_{k=1}^{n} k^{3}$$

$$\sum_{k=1}^{n} k^2$$

$$\sum_{i=1}^{n} k^3$$

$$\sum_{k=1}^{n} (2k - 1)$$
(4)

$$\sum_{k=2}^{n+1} k$$

(5)

С

$$\frac{d}{dx}(x^n)$$
 n

(6)

$$\int x^n \, dx \, \, \mathbf{n}$$

(7)

$$\int_{1}^{3} 2x^{3} + 6x^{2} - 3 \, dx$$

(8)

$$\int (5x^4 + 4^3 + 1) \, dx$$

(9)

$$\frac{d}{dx}\int (x^{1024} + 5324x^{42}) dx$$
(10)

$$\int (y^2 + 2y + 1) \, dx$$

(11)

(6)

$$(z)(z)(z)z^{5}-1$$

$$3b_n -$$

$$2, 1 \le$$

$$n \le$$

$$5 \}$$

$$A \cap$$

$$B$$

$$t \quad xy \quad P(\cos 2t, \cos t) \quad Q(\sin t, \sin 2t)$$

$$(1) P \quad Q \qquad t$$

$$(2)t \quad 0 <$$

 2π , P xy ,x ,y , , ,

t <