Theorem. Let D be an open set in t, Let T be triangle such that T and its interior lie in D. If fiz) is analytic in D, then



$$\int_{T^{(1)}}^{H_{2}} dx = \int_{J}^{P} \int_{T_{j}^{(2)}}^{H_{2}} dx = (x)$$

There is i set.

$$\left| \int_{T^{(1)}} f(z) dz \right| \leq 4 \left| \int_{T_{2}^{(1)}} f(z) dz \right|$$

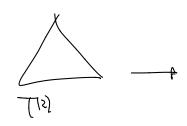
Notation
$$J^{(i)} = J_{iamotor} \circ f T^{(i)} \circ ex$$

$$P^{(i)} = perimeter \circ f T^{(i)}$$



$$J^{(2)} = \text{ diameter of } T^{(2)} = \frac{1}{2}J^{(1)}$$

$$P^{(2)} = \text{ perimeter of } T^{(2)} = \frac{1}{2}P^{(1)}$$





define
$$T_{i}^{(3)}$$
 ($i=1,2,3,4$)

Find j 5.7.
$$\left| \int_{T^{(2)}} f_{(2)} dz \right| \leq 4 \left| \int_{T_{2}^{(3)}} f_{(3)} dz \right|$$
Let $T^{(3)} = T_{1}^{(3)}$

$$Q_{(3)} = \frac{\overline{Q}}{\sqrt{15}} = \frac{\overline{Q}}{\sqrt{10}} = \frac{\overline{Q}}{\sqrt{1$$

$$\left|\int_{T^{(1)}}f(z)dz\right|\leq 4^{2}\left|\int_{T^{(3)}}f(z)dz\right|$$

observe 1.
$$\bigcap_{N=1}^{\infty} T^{(N)} = \frac{720}{100}$$
 for some $z_0 \in D$

2.
$$\lim_{z \to z_0} \frac{f(z) - f(z_0)}{z - z_0} = f(z_0) - \cdots (z_n)$$

Let
$$\psi(z) = \frac{f(z) - f(z_0)}{z - z_0} - f'_{(z_0)}$$
, then

$$f(z) = f(z_0) + f(z_0) (z_{-}z_0) + f(z) (z_{-}z_0)$$
polynamial

$$\left|\int_{T^{(2)}} dz\right| \leq 4^{n-1} \left|\int_{T^{(n)}} f(z) dz\right|$$

$$\int_{T(N)} f(z) dz = \int_{T(N)} f(z_0) (z_{-20}) dz + \int_{T(N)} f(z_0) (z_{-20}) dz$$

$$= \int_{T(N)} f(z_0) (z_{-20}) dz$$

$$\left| \int_{T^{(n)}} f(z) dz \right| \leq \left(\max_{z \in T^{(n)}} \left| \frac{1}{2^{(n)}} \frac{1}{2^{(n)}} \right| \right)$$

$$= \frac{d^{(n)}}{4^{(n-1)}} \max_{z \in T^{(n)}} \left(\frac{1}{2^{(n)}} \right)$$

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$$\int_{T(x)}^{T(x)} dx = \int_{T(x)}^{T(x)} dx = \int_{T(x)$$

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