

## بخش ۷-۱- تکینگیها

## مسائل صفحه ۵۴۴

۷-۱-۱ بسط سری لوران تابع  $f(z)$  نشان می‌دهد که این تابع یک قطب مرتبه  $m$  در  $Z = Z_0$  دارد نشان دهید که  $a_{-1}$  ضریب  $(z - z_0)^{-1}$  از رابطه زیر بدست می‌آید.

$$a_{-1} = \frac{1}{(m-1)!} \frac{d^{m-1}}{dz^{m-1}} \left[ (z - z_0)^m f(z) \right]_{z=z_0}$$

که اگر این قطب یک قطب ساده ( $m=1$ ) باشد خواهیم داشت

$$a_{-1} = \left[ (z - z_0) f(z) \right]_{z=z_0}$$

این معادله برای  $a_{-1}$  در تعیین مانده‌ای که در بخش بعد در قضیه مانده‌ها بکار می‌رود بسیار سودمند است.

$$f(z) = \sum_{n=-\infty}^{\infty} a_n (z - z_0)^n \quad f(z) = \frac{a_m}{(z - z_0)^m} + \frac{a_{m-1}}{(z - z_0)^{m-1}} + \dots + \frac{a_{-1}}{(z - z_0)^1} \quad \text{کحل}$$

طرفین را در  $(z - z_0)^m$  ضرب می‌کنیم.

$$(z - z_0)^m f(z) = a_m + a_{m-1} (z - z_0) + \dots + a_{-1} (z - z_0)^{m-1} + \dots$$

حال مشتق‌گیری می‌کنیم

$$\frac{d^{m-1}}{dz^{m-1}} \left[ (z - z_0)^m f(z) \right] = (m-1)! a_{-1} \Rightarrow$$

$$a_{-1} = \frac{1}{(m-1)!} \frac{d^{m-1}}{dz^{m-1}} \left[ (z - z_0)^m f(z) \right]$$

۷-۱-۲ تابع  $f(z)$  را می‌توان به کمک رابطه زیر نشان داد.

$$f(z) = \frac{f_1(z)}{f_2(z)}$$

که در آن  $f_1(z)$  و  $f_2(z)$  تحلیلی‌اند.  $f_2(z)$  در مخرج در  $z = z_0$  صفر می‌شود از اینجا پی می‌بریم که  $f(z)$  در  $z = z_0$  یک قطب دارد. ولی  $f_1(z) \neq 0$  و  $f_2'(z_0) \neq 0$  نشان دهید که  $a_{-1}$  ضریب  $(z - z_0)^{-1}$  در بسط لوران تابع  $f(z)$  به ازای  $z = z_0$  از رابطه زیر بدست می‌آید.

$$a_{-1} = \frac{f_1(z_0)}{f_2'(z_0)}$$

این نتیجه به قضیه بسط هویساید در بخش ۱۵-۱۲ می‌انجامد.

# Arfken Solution 7th

**S Ashworth**



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