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Sct. A

2. 
$$f(x) = 5x^{4}$$
  
 $a_{0} = \frac{1}{2}x^{5}x^{4} = \frac{\pi}{2}\left[\frac{x^{5}}{\pi}\right]_{2}^{2} = \frac{\pi}{2}(x^{5})^{2} = \frac{\pi}{2}(x^$ 

$$a_0 = \frac{1}{2} x_0^4 = \frac{1}{2} (x_1^4 - x_2^2)$$

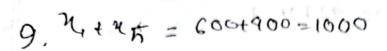
$$3. D = 2(3 - 4) - 3(-42) + (-2)(4 - 1) = -2 + 12 - 12 = 2$$

$$x = [-1, y = 1, z = 1]$$

5. 
$$f(x) = \frac{x^9}{\cos x}$$
,  $f(-x) = \frac{x^9}{\cos x}$ 

6. 
$$\begin{bmatrix} 1 & 1 & 6 & 6 \\ 0 & 1 & 1 & 6 \\ 0 & 0 & 1 & 1 \end{bmatrix} = \begin{bmatrix} 6 & 7 & 1 \\ 2 & 2 & 7 \end{bmatrix}$$
  $\lambda = -3$ ,  $M = 2$ 

7. 
$$D = 1(-9-1)-2(8-3) - 3(-2-3) = -5-10+18=3$$



10. 
$$a_0 = 0$$
 (odd)  
10.  $a_0 = 0$  (odd)  
10.  $a_0 = 0$  (odd)

This is in coststant