

HOMEWORK #26 (M427K FALL 2004)

Expand the function

$$f(x) = x^3 + x^2$$

1. VALID ON THE INTERVAL $-\pi$ TO π USING SINES AND COSINES

2. VALID ON THE INTERVAL 0 TO π USING ONLY SINES

hint: extend the function to an odd function

3. VALID ON THE INTERVAL π TO 0 USING ONLY COSINES

hint: “ “ “ even function