

(m) The basis is

$$\left\{ \begin{pmatrix} \frac{i-1}{3\sqrt{2}} & -\frac{i}{3\sqrt{2}} \\ \frac{2-i}{3\sqrt{2}} & \frac{2+i}{3\sqrt{2}} \end{pmatrix}, \begin{pmatrix} -\frac{4i}{\sqrt{246}} & \frac{-26-i}{\sqrt{246}} \\ \frac{2+i}{\sqrt{246}} & \frac{2-i}{\sqrt{246}} \end{pmatrix}, \begin{pmatrix} \frac{-218i-7}{\sqrt{38063}} & \frac{-26i-7}{\sqrt{38063}} \\ -\frac{42i}{\sqrt{38063}} & -\frac{26}{\sqrt{38063}} \end{pmatrix} \right\}.$$

And the Fourier coefficients are $3\sqrt{2}i + 6\sqrt{2}, -\sqrt{246}i - \sqrt{246}, 0$.

3. Check that β is an orthonormal basis. So we have the coefficients of $(3, 4)$ are

$$(3, 4) \cdot \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right) = \frac{7}{\sqrt{2}}$$

and

$$(3, 4) \cdot \left(\frac{1}{\sqrt{2}}, -\frac{1}{\sqrt{2}} \right) = -\frac{1}{\sqrt{2}}.$$

4. We may find the null space for the following system of equations

$$(a, b, c) \cdot (1, 0, i) = a - ci = 0,$$

$$(a, b, c) \cdot (1, 2, 1) = a + 2b + c = 0.$$

So the solution set is $S^\perp = \text{span}\left\{\left(i, -\frac{1}{2}(1+i), 1\right)\right\}$.

5. We may thought x_0 as a direction, and thus $S_0^\perp$ is the plane orthogonal to it. Also, we may thought the span of x_1, x_2 is a plane, and thus $S_0^\perp$ is the line orthogonal to the plane.
6. Take X to be the space generated by W and $\{x\}$. Thus X is also a finite-dimensional subspace. Apply Theorem 6.6 to x in X . We know that x could be uniquely written as $u + v$ with $u \in W$ and $v \in V^\perp$. Since $x \notin W$, we have $v \neq 0$. Pick $y = v$. And we have

$$\langle x, y \rangle = \langle v, v \rangle + \langle u, v \rangle = \|v\|^2 > 0.$$

7. The necessity comes from the definition of orthogonal complement, since every element in β is an element in W . For the sufficiency, assume that $\langle z, v \rangle = 0$ for all $v \in \beta$. Since β is a basis, every element in W could be written as

$$\sum_{i=1}^k \alpha_i v_i,$$

where α_i is some scalar and v_i is element in β . So we have

$$\langle z, \sum_{i=1}^k \alpha_i v_i \rangle = \sum_{i=1}^k \alpha_i \langle z, v_i \rangle = 0.$$

Hence z is an element in $W^\perp$.

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