1)

support	vectors:
1)	_

$$\binom{1}{6}\binom{4}{1}\binom{4}{6}$$

$$a_1(\frac{1}{2})(\frac{4}{1}) + a_2(\frac{4}{1})(\frac{4}{1}) + a_3(\frac{5}{4})(\frac{4}{1}) = -1$$

$$a3 = \frac{4}{aar}$$

$$-\frac{61}{805}\cdot \left(\frac{6}{1}\right) + \frac{3}{805}\cdot \left(\frac{7}{1}\right) + \frac{7}{805}\cdot \left(\frac{7}{6}\right) = \begin{pmatrix} 1/3 \\ -1/5 \\ -2/15 \end{pmatrix}$$

$$\frac{2}{\sqrt{3}(-\frac{1}{5},-\frac{2}{5})} = \frac{2}{\sqrt{38/355}} = \frac{5\sqrt{3}}{\sqrt{38/355}} = \frac{5\sqrt{3}}{\sqrt{38/35}} = \frac{5\sqrt{3}}{\sqrt{38/35$$