

MATH 54 SUMMER 2017, QUIZ 12

Are the following vectors in \mathbb{P}_2 linearly dependent? If not, explain why not. If so, find a nontrivial linear combination of them that is equal to the zero polynomial.

$$p = -2x^2 + 4x + 4$$

$$q = 3x^2 + 6x - 2$$

$$r = -2x^2 + x + 3$$