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Quiz 11

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. §4.3 #9 (5 marks) For which real values of λ do the following vectors form a linearly dependent set in \mathbb{R}^3 ?

$$\vec{v}_1 = (\lambda, -\frac{1}{2}, -\frac{1}{2}), \ \vec{v}_2 = (-\frac{1}{2}, \lambda, -\frac{1}{2}), \ \vec{v}_3 = (-\frac{1}{2}, -\frac{1}{2}, \lambda)$$

Question 2. §4.3 #12 (5 marks) Show that in \mathcal{P}_2 every set with more than three vectors is linearly dependent.