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(b) Discuss the form of the dispersion relation and the nature of the normal modes when  $M1 \gg M2$ .PHYSICS 231PHYSICS 231 Homework 6 The final exam will be in class, Wednesday December 7, 4:00 - 7:00 pm. The exam will be closed book but you can bring one sheet of notes, if you wish. The topics on the exam will be closely related to the topics covered in the homework assignments. Hence part of your preparation for the exam should be to go over the HW questions. Solutions are available on the class ...PHYSICS 231Physics 231 Homework 5 K V Physics Department is open in our digital library an online admission to it is set as public so you can download it instantly. Our digital library saves in combination countries, allowing you to get the most less latency times to download any of our books later this one. 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$M2 1+M22+2M1M2\coska$ , (1) where  $K$  is the spring constant, and  $a$  is the size of the unit cell (so the spacing between atoms is  $a/2$ ). (b) Discuss the form of the dispersion relation and the nature of the normal modes when  $M1 \gg M2$ .

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