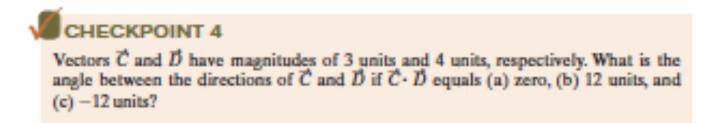
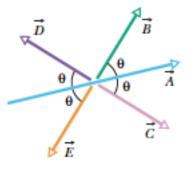
Physics 227H, Fall 2020: Problems to do BEFORE Recitation 3



10 Figure 3-25 shows vector \vec{A} and four other vectors that have the same magnitude but differ in orientation. (a) Which of those other four vectors have the same dot product with \vec{A} ? (b) Which have a negative dot product with \vec{A} ?



Flg. 3-25 Question 10.

5 Figure 13-24 shows three situations involving a point particle P with mass m and a spherical shell with a uniformly distributed mass M. The radii of the shells are given. Rank the situations ac-

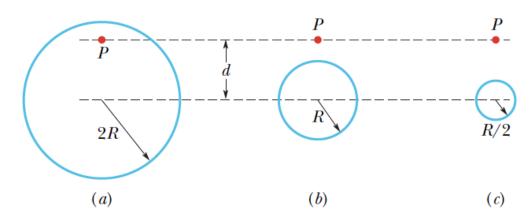


Fig. 13-24 Question 5.

cording to the magnitude of the gravitational force on particle P due to the shell, greatest first.