[gex30] Diagonals of a parallelogram

Two vectors $\mathbf{A}$ and $\mathbf{B}$ at an angle $0 < \theta < \pi/2$ define a parallelogram.
(a) What is the range of the angle ϕ between the two diagonals?
(b) Show that the diagonals of a rhombus ($|\mathbf{A}| = |\mathbf{B}|$) are always perpendicular.

Solution: