Distance on Polar Coordinate System- Polar Project

Find the distance between each set of points.
1. $(1, 150\degree)$ and $(2, 130\degree)$
2. $(4, 90\degree)$ and $(5, 210\degree)$
3. $(6, 60\degree)$ and $(2, 90\degree)$
4. $(2, 120\degree)$ and $(1, 150\degree)$
5. $(7, 210\degree)$ and $(4, 300\degree)$

Explain a real world situation where you could apply finding the distance in a polar system. Provide an actual example with the calculation for the distance. Include a picture.