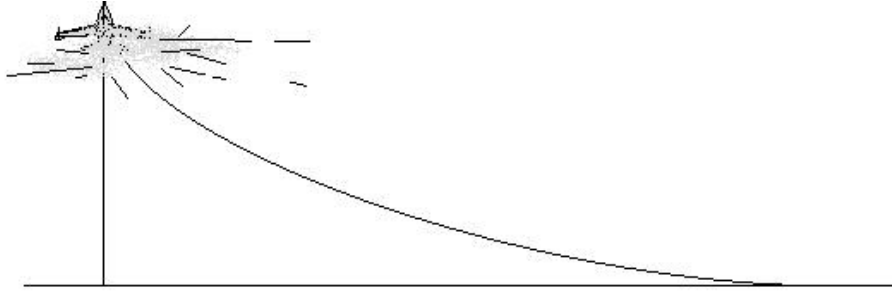A jet is flying at a miles per hour. A missile is pursuing the jet at b miles per hour. We will assume that $0 < a < b$.

The missile's guidance system keeps it pointing at the jet at all times.

Eventually, the missile will overtake the jet.

The path that the missile travels along is called a *pursuit curve*.