When a plane goes faster than the speed of sound, a sonic boom shock wave occurs. A cone shaped wave shoots out of the back of the plane as shown in the photograph over and intersects the ground in part of a hyperbola. It hits every point on this curve at the same time, so that people in different places along the curve on the ground hear it at the same time.


|  | DESIGN \& COMMUNICATION GRAPHICS |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | TITLE: | CONIC SECTIONS 3 |  |  |
|  | DRAWN BY: |  | $\begin{aligned} & \text { SIZE } \\ & \text { A3 } \end{aligned}$ | UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm |
|  | SCALE: 1:1 | DATE: 26/01/2009 |  | SHEET 1 OF 1 |

