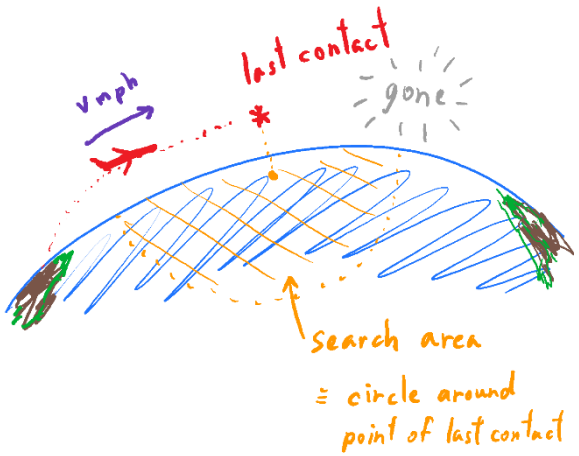
P8. Cast-away chance to be found (inspired by movie Cast Away 2000). A lone plane-crash survivor found himself on an uninhabited island. He tries to figure out his chance to be found by a search team. He was on a plane traveling at speed *v* mph. The plane lost its contact for *T* hours before crash.

Write a program to calculate a search area for this cast-away: ask a user for plane speed *v* (in mph) and time *T* between the plane last contact and its crash, calculate the search area and report the finding (as well as put it in perspective: Thailand size = 513,120 sq. km. = 198,120 sq. mi.) Note: (1) *search area* = πr^2; (2) $r = v * T$.



Example

```
======================================================================
Plane speed (mph):475
Interval between crash and the last contact (h):1
Search area = 708,821.84 sq.mi.
That's 3.58 time(s) the size of Thailand.
======================================================================
```

Use `P8_template.py`. (The template is only to allow smooth autograding.)