The Equation:

$$\phi = \arctan\left(\frac{2\pi v}{gT}\right)$$

```
TAS <- 200
gravity <- 9.8
T <- -30 + 273.15
atan (2 * pi * TAS / (gravity * T)) * 180 / pi
## [1] 27.8055
## gives required roll angle in degrees
```

See the Calculator under Tools