$\frac{|t|^k}{(1+t^2)^{\frac{\nu+1}{2}}}$ ~ $\frac{1}{|t|^{\nu+1-k}}$

$\frac{\nu+1}{2} \geq \frac{1}{2}$

Write down same

$\frac{1}{\left(|t|^{\frac{-2k}{\nu+1}} + |t|^{2-\frac{2k}{\nu+1}}\right)^{\frac{\nu+1}{2}}} \approx \frac{1}{|t|^{\nu+1-k}}$

$|t|^{\frac{-2}{\nu+1}}$

$\frac{1}{(1+|t|)^{\nu+1}}$

$0 <$

$dk\,|t|^{\nu+1-k}$

So $\frac{1}{|t|^{\nu+1-k}}$

for $\nu+1-k > 1$

ie $k < \nu$