Simple integrals for plane current distributions.

```
$Assumptions = z \neq 0 && z \in Reals \&\& R > 0;

Integrate[r(z^2 + r^2)^n(-3/2), r]

Integrate[r(z^2 + r^2)^n(-3/2), \{r, 0, Infinity\}]

(*Integrate[r(z^2 + r^2)^n(-3/2), \{r, 0, R\}]*)

$Assumptions = r > 0;

Integrate[(z^2 + r^2)^n(-3/2), \{z, -Infinity, Infinity\}]

-\frac{1}{\sqrt{r^2 + z^2}}
\frac{1}{Abs[z]}
```