

```
Assuming[Element[a, Reals] && Element[y, Reals] && a > 0 && y > a,  
Integrate[(y - yp) / (xp^2 + (y - yp)^2)^(3/2), {yp, -a, a}, {xp, -a, a}]]
```

$$2 \operatorname{Log}\left[-\frac{(a+y)\left(a+\sqrt{2a^2-2ay+y^2}\right)}{(a-y)\left(a+\sqrt{2a^2+2ay+y^2}\right)}\right]$$