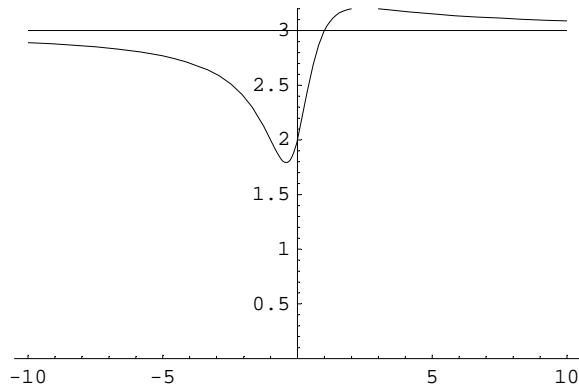


# Lösung

```
Apart[(3 x^2 + x + 2) / (x^2 + 1)]
```

$$3 + \frac{-1 + x}{1 + x^2}$$

```
Plot[{3, (3 x^2 + x + 2) / (x^2 + 1)}, {x, -10, 10}, PlotRange -> {0, 3.2}];
```



```
Solve[(3 x^2 + x + 2) / (x^2 + 1) == 3, {x}]
```

```
{{x -> 1}}
```

```
Solve[(3 x^2 + x + 2) / (x^2 + 1) == 0, {x}]
```

```
{{x -> 1/6 (-1 - i sqrt(23))}, {x -> 1/6 (-1 + i sqrt(23))}}
```