

$$\boxed{17} \int \frac{3x^2}{x^3+4} dx$$

$\swarrow$   
 $3x^2$

$$\int \frac{3x^2}{x^3+4} dx = \ln|x^3+4| + C$$

$$\boxed{25} \int \frac{3x^2-2}{x^3-2x} dx$$

$\swarrow$   
 $3x^2-2$

$$= \int \frac{3x^2-2}{x^3-2x} dx$$

$$= \ln|x^3-2x| + C$$

$$\boxed{27} \int \frac{z^2+1}{z^3+3z+17} dz$$

$\swarrow$   
 $3z^2+3$

$$= \frac{1}{3} \int \frac{3(z^2+1)}{z^3+3z+17} dz$$

$$= \frac{1}{3} \ln|z^3+3z+17| + C$$