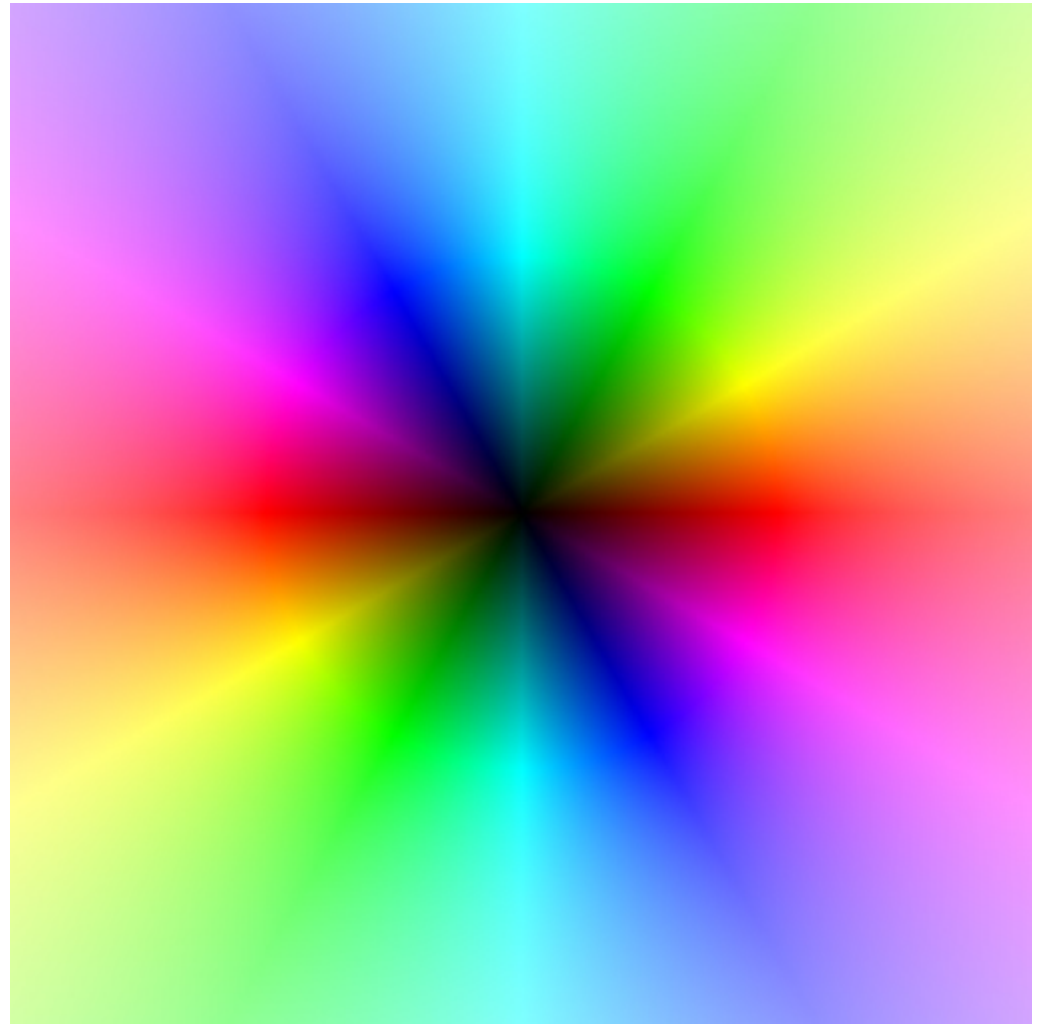
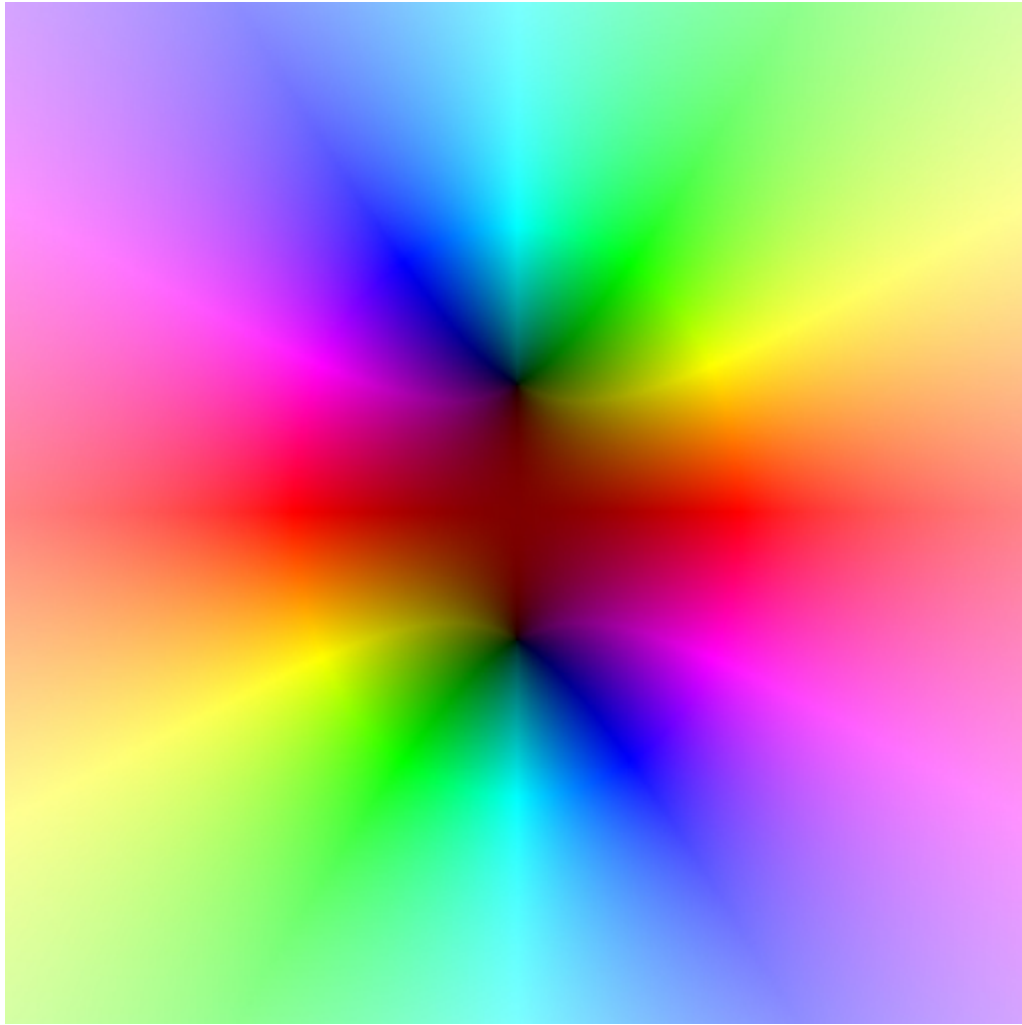


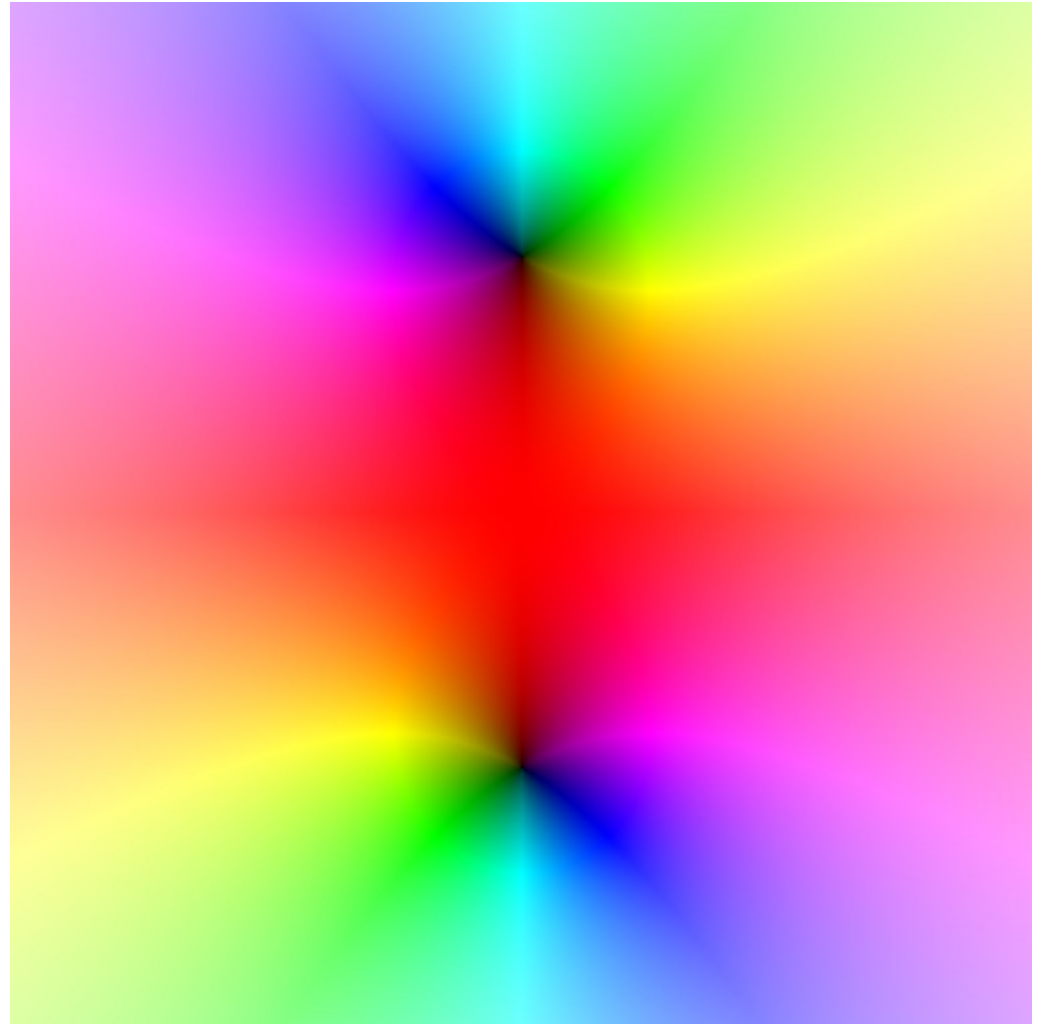
$$f(z) = z$$



$$f(z) = z^2$$



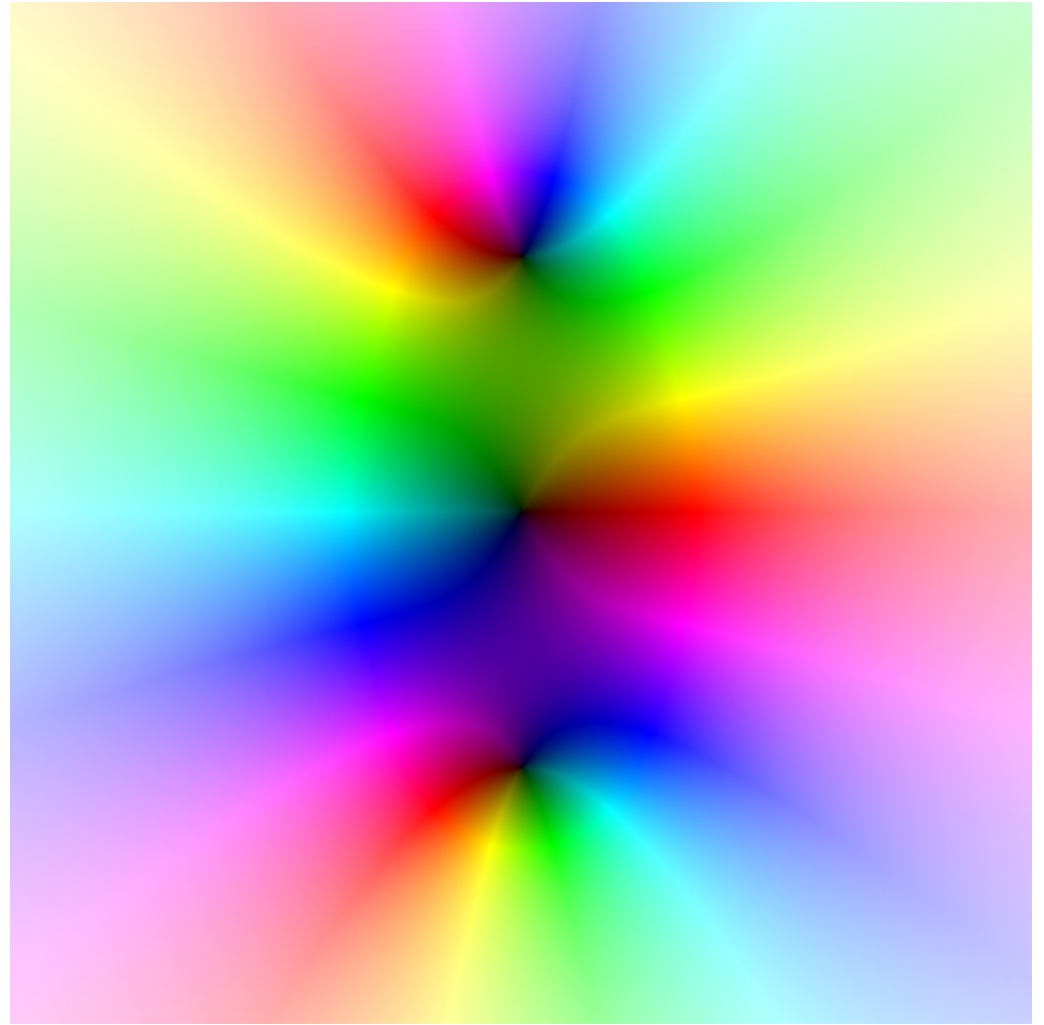
$$f(z) = z^2 + \frac{1}{4}$$



$$f(z) = z^2 + 1$$



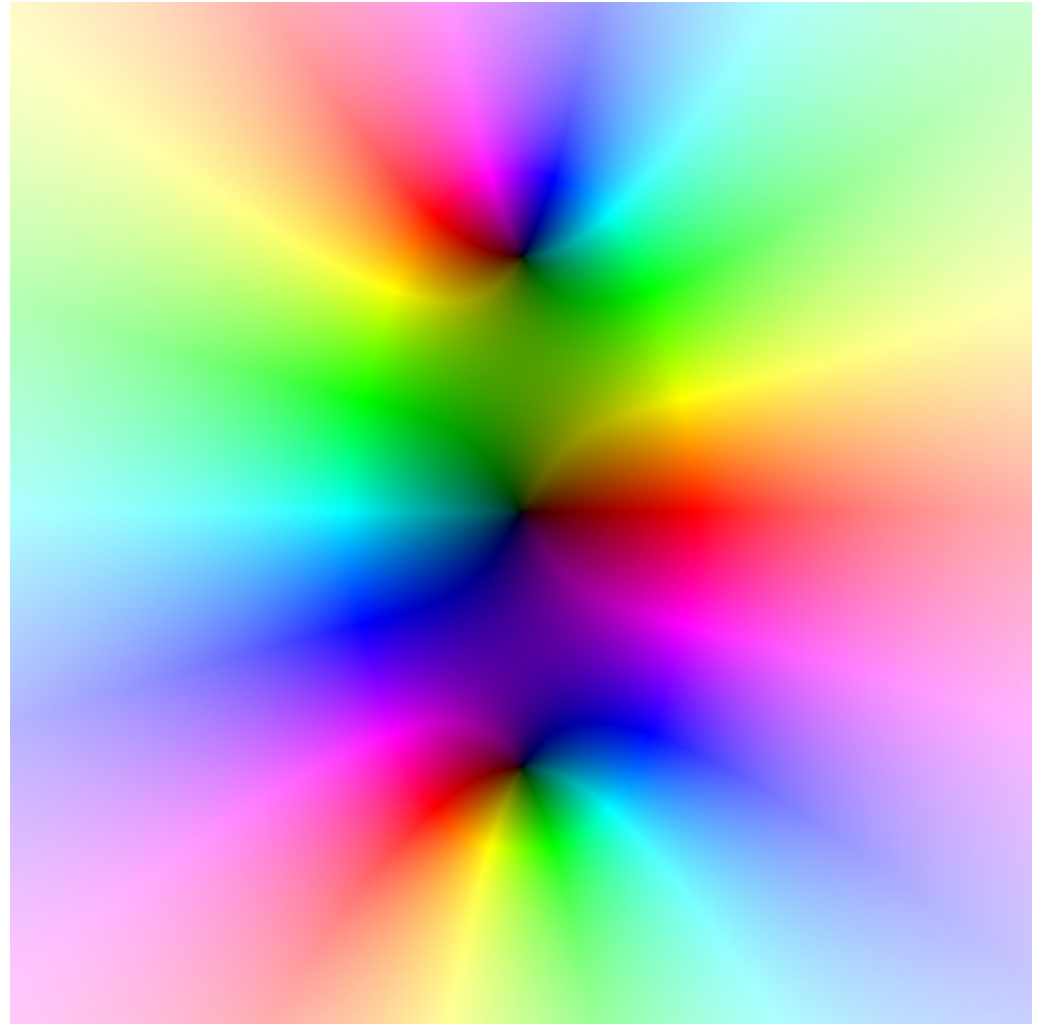
$$f(z) = ?$$



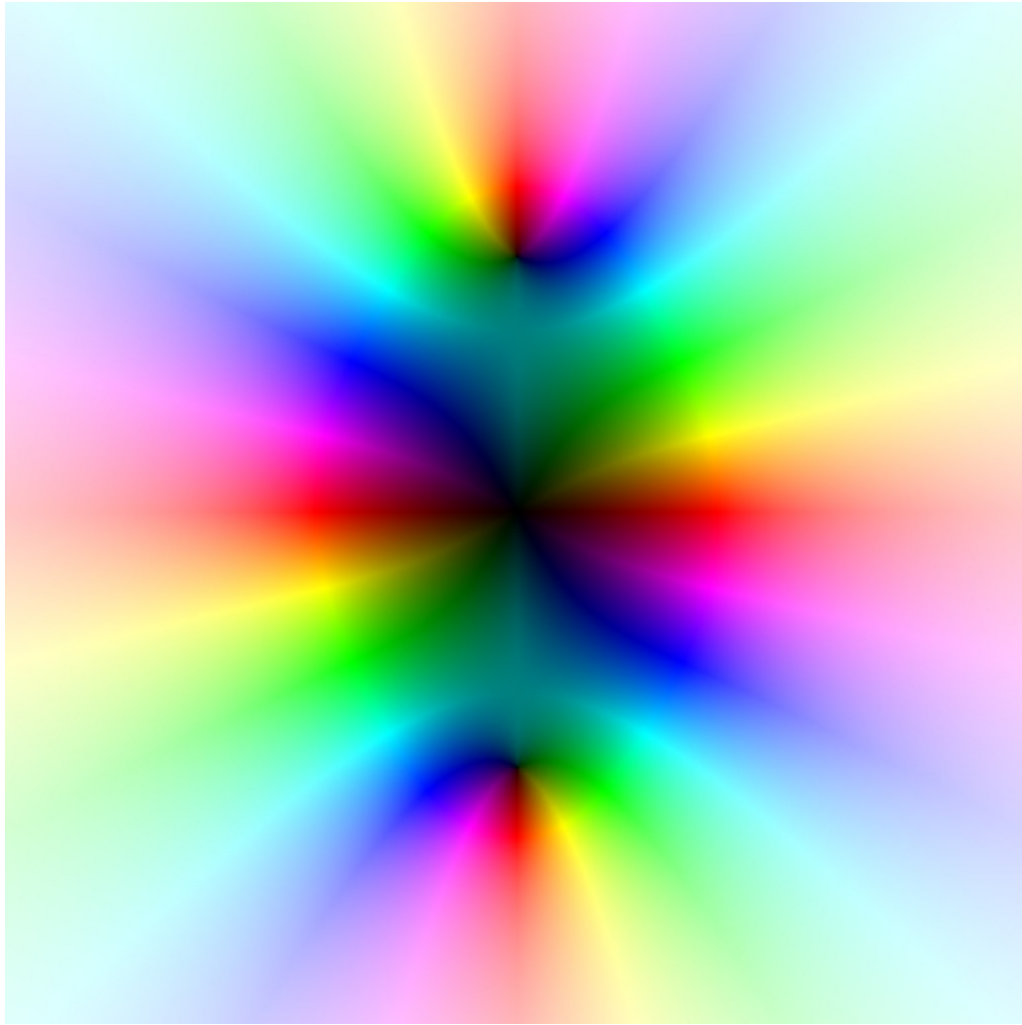
$$f(z) = ?$$



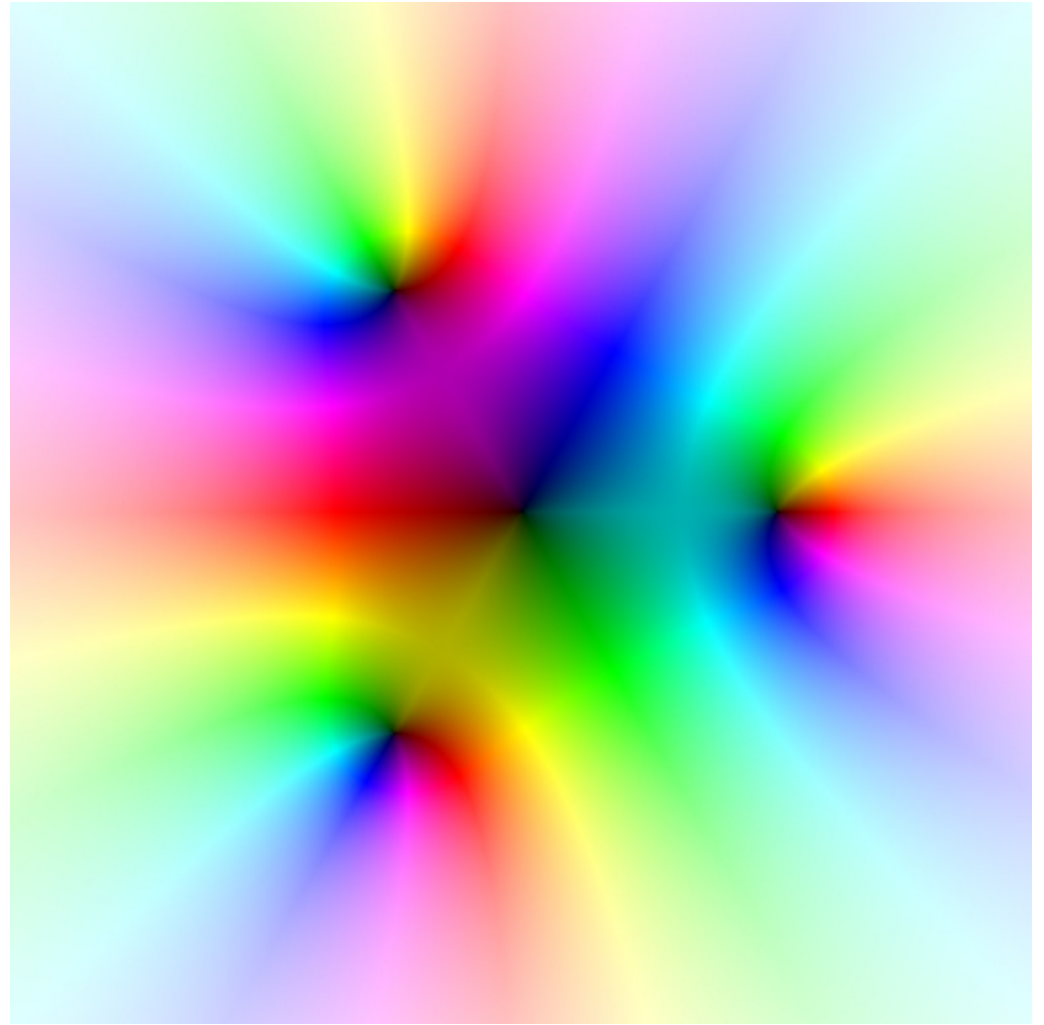
$$f(z) = z^3$$



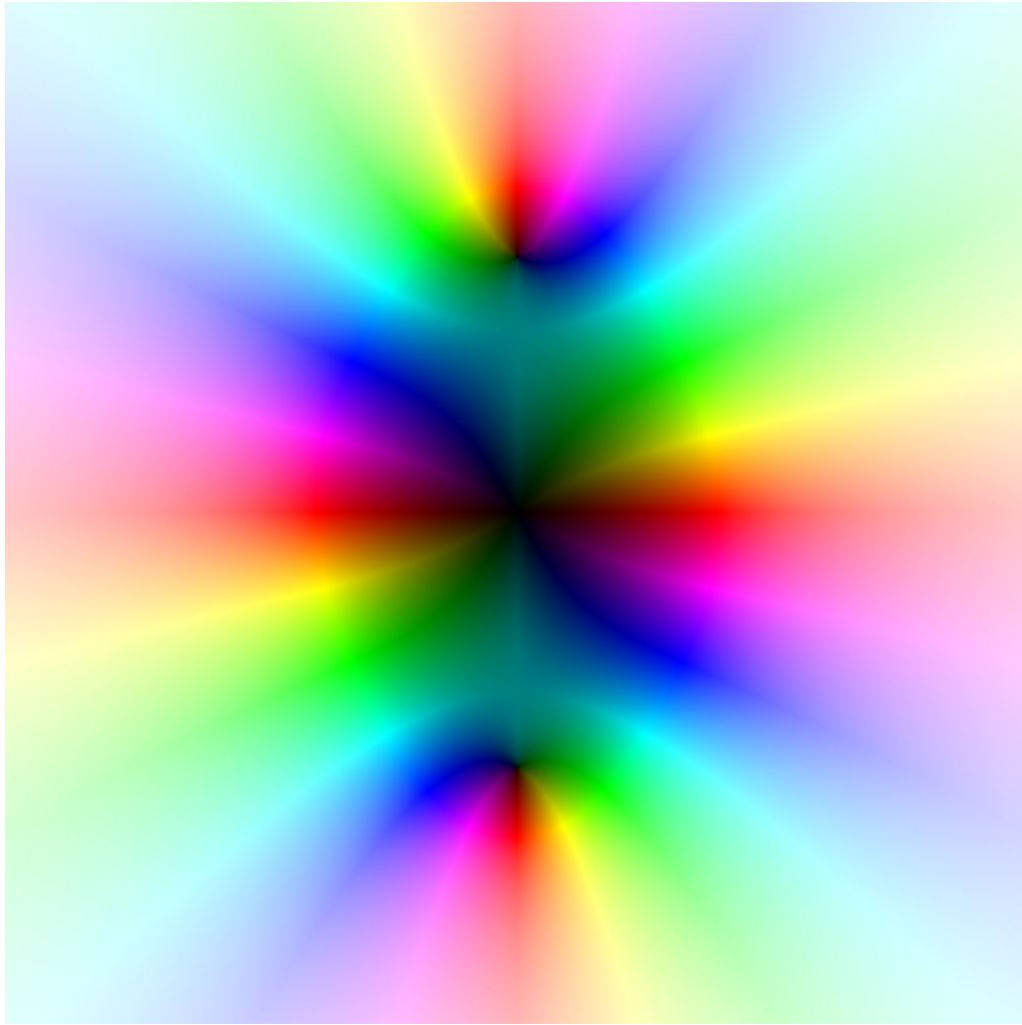
$$f(z) = z^3 + z$$



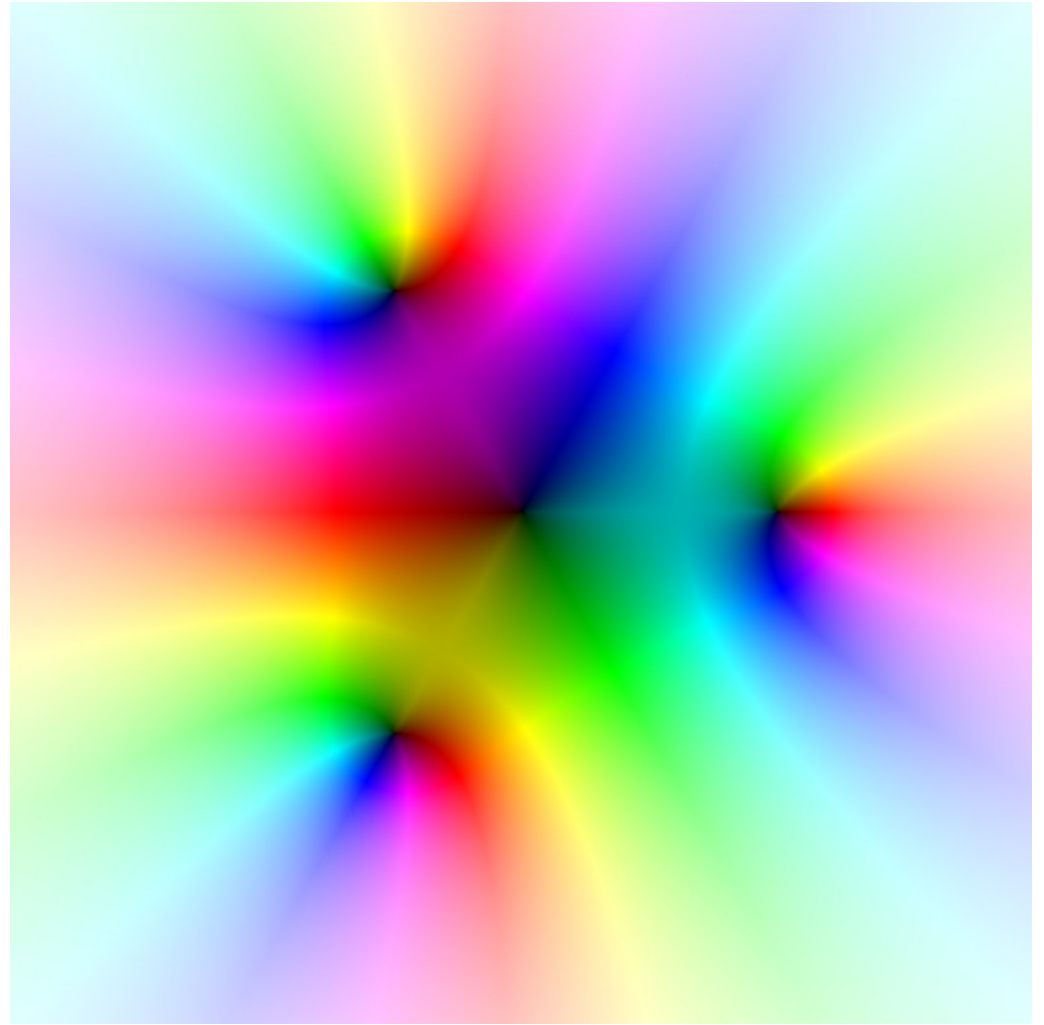
$f(z) = ?$



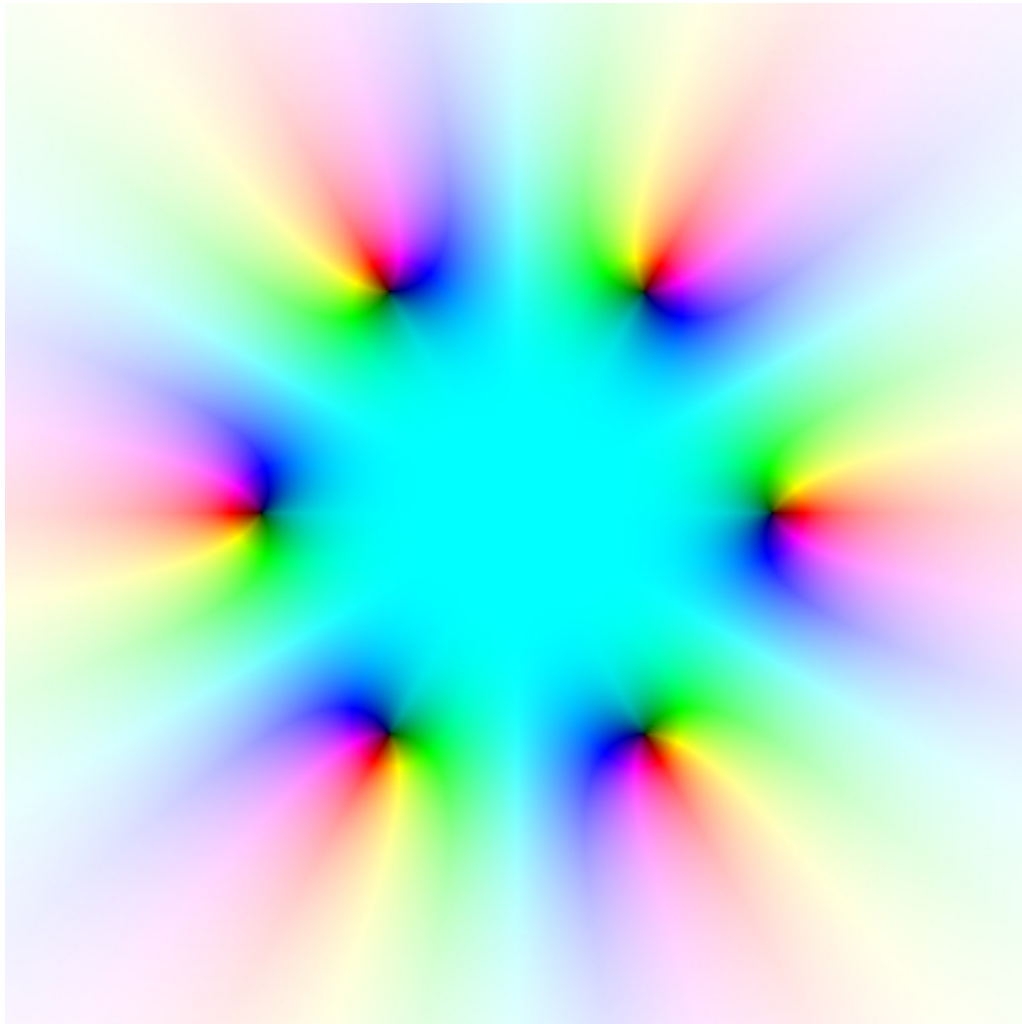
$f(z) = ?$



$$f(z) = z^4 + z^2$$



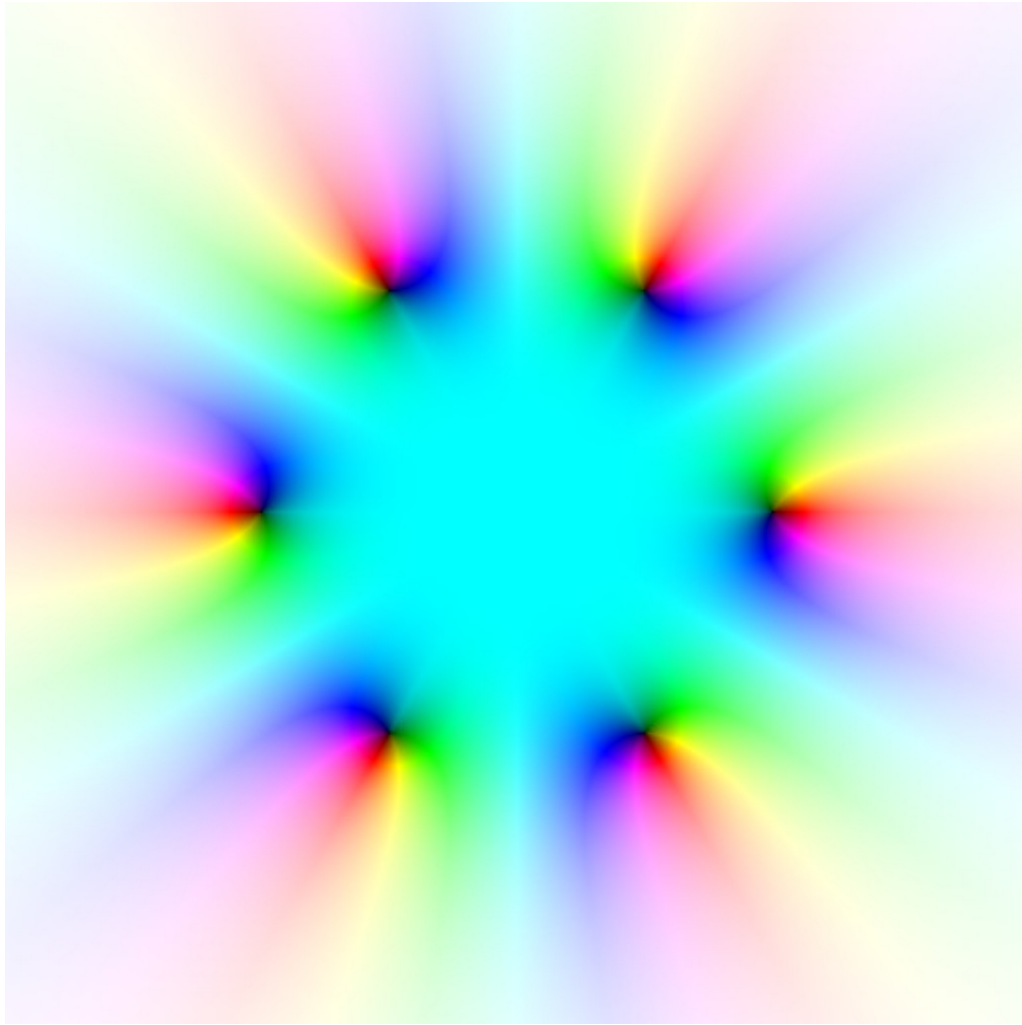
$$f(z) = z^4 - z$$



$f(z) = ?$



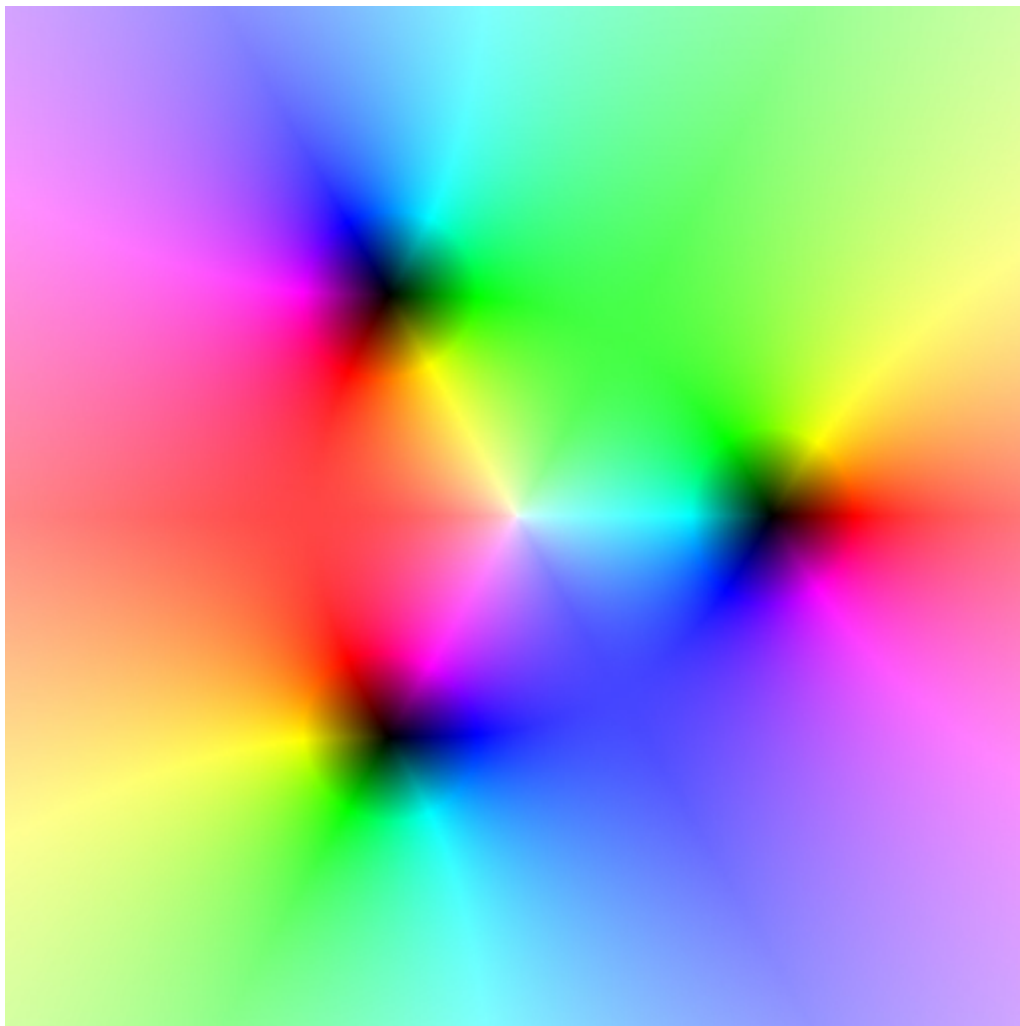
$f(z) = ?$



$$f(z) = z^6 - 1$$

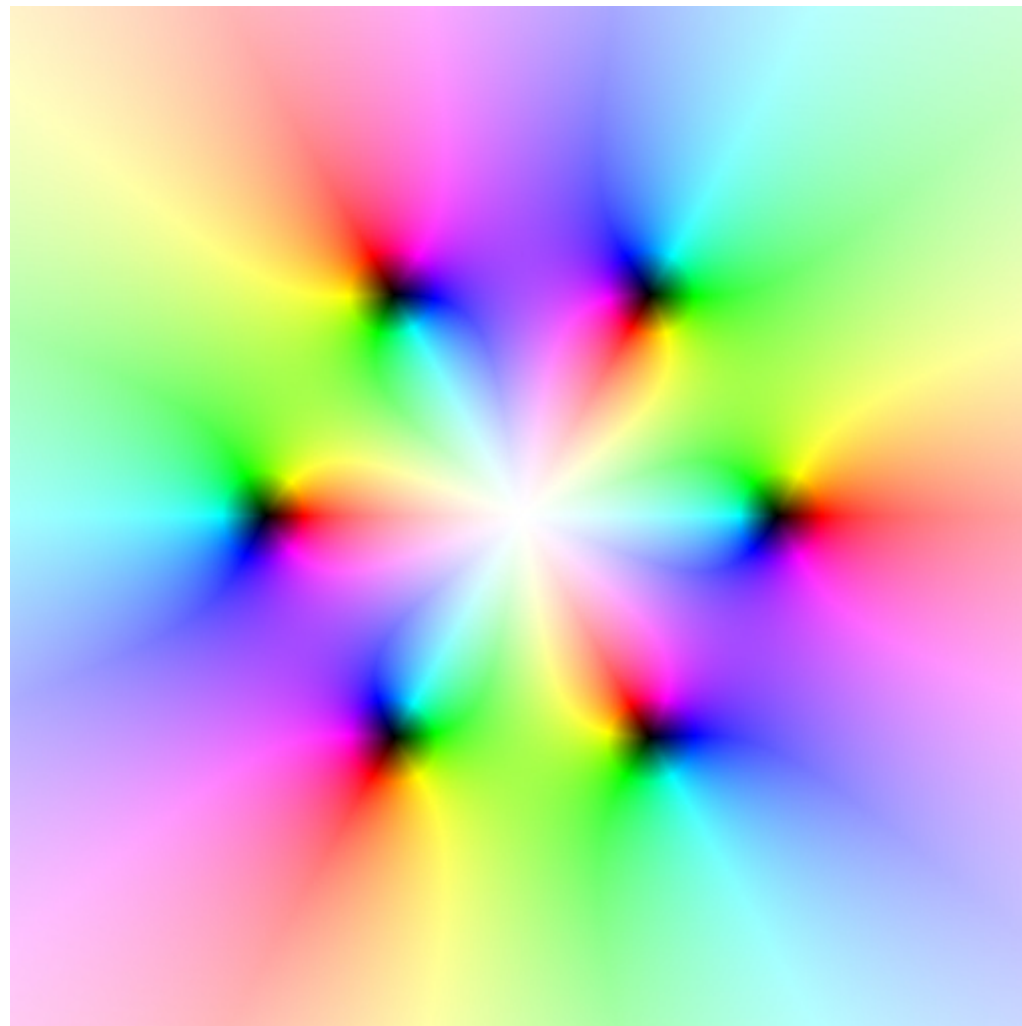


$$f(z) = z^7 - z$$



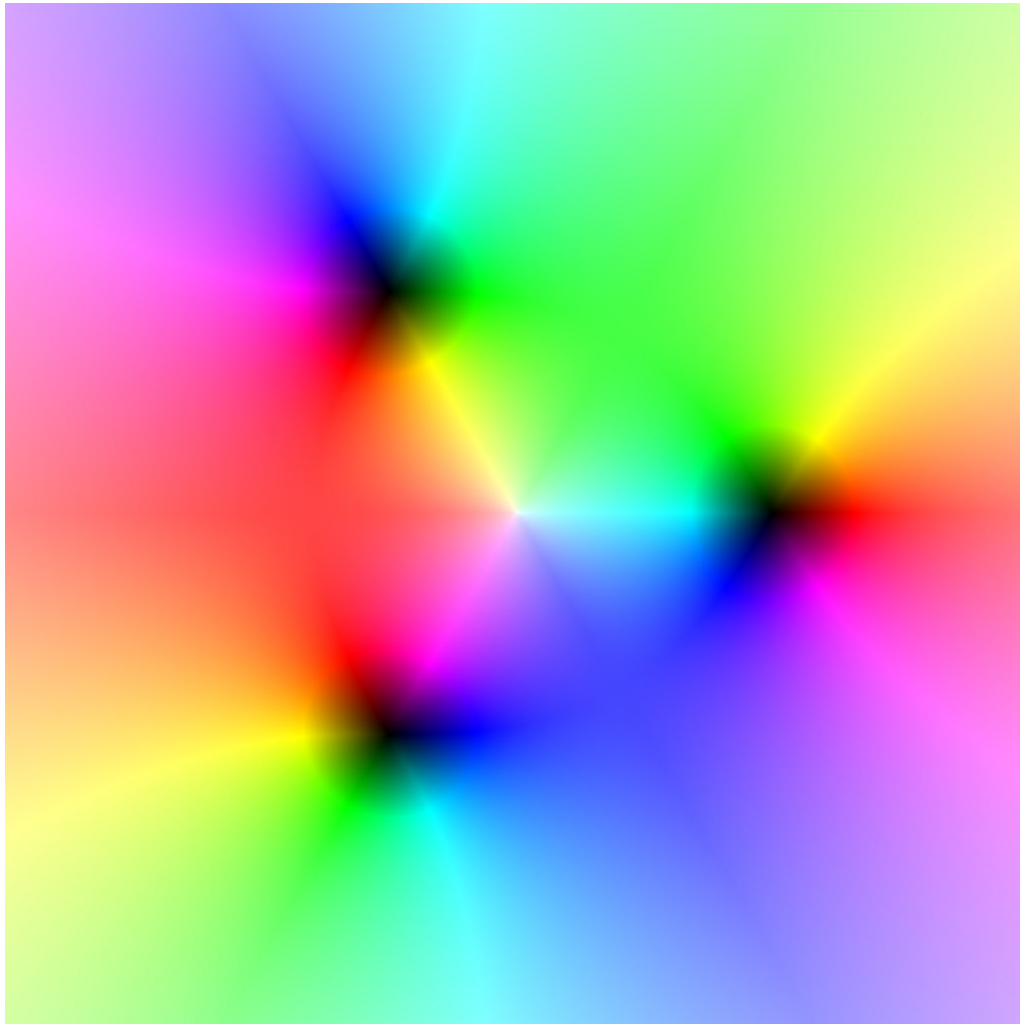
$$f(z) = ?$$

простой полюс в $z = 0$



$$f(z) = ?$$

тройной полюс в $z = 0$



$$f(z) = z^2 - z^{-1}$$

простой полюс в $z = 0$



$$f(z) = z^3 - z^{-3}$$

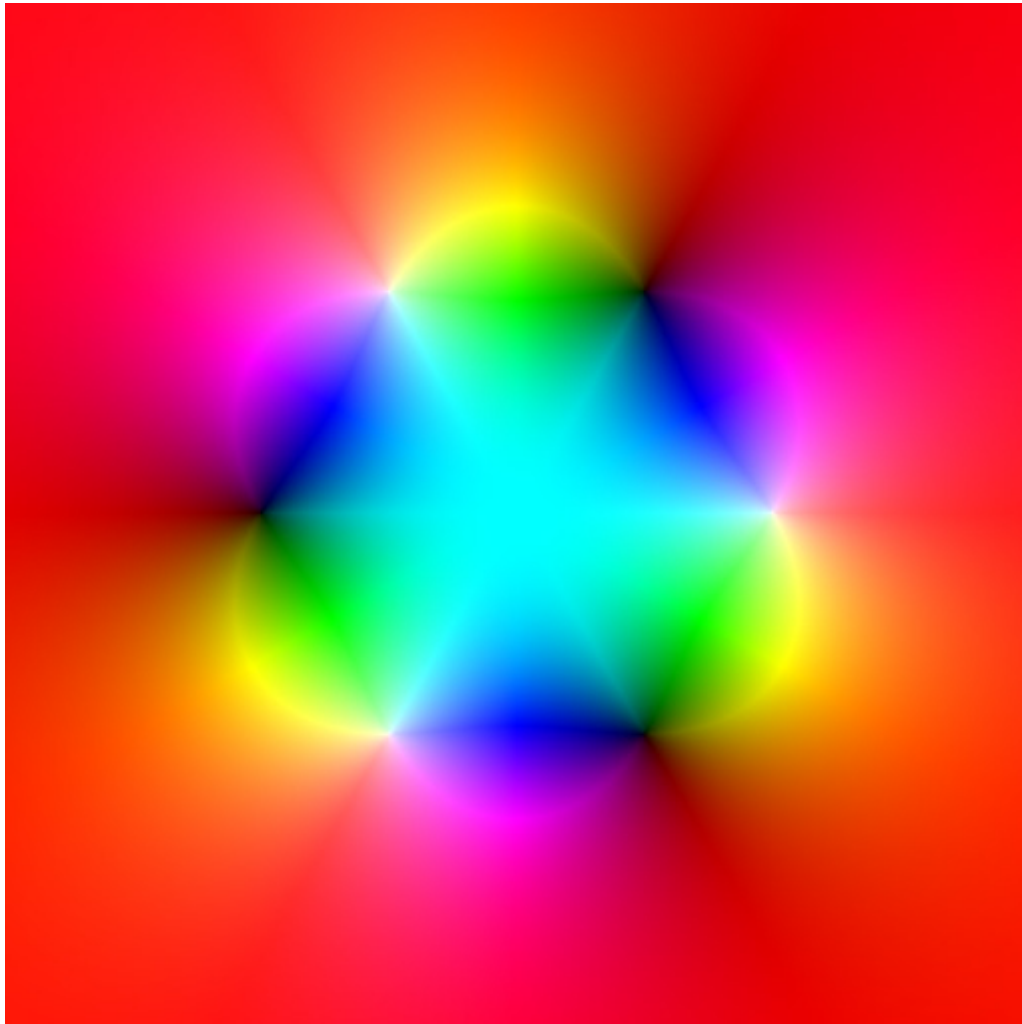
тройной полюс в $z = 0$



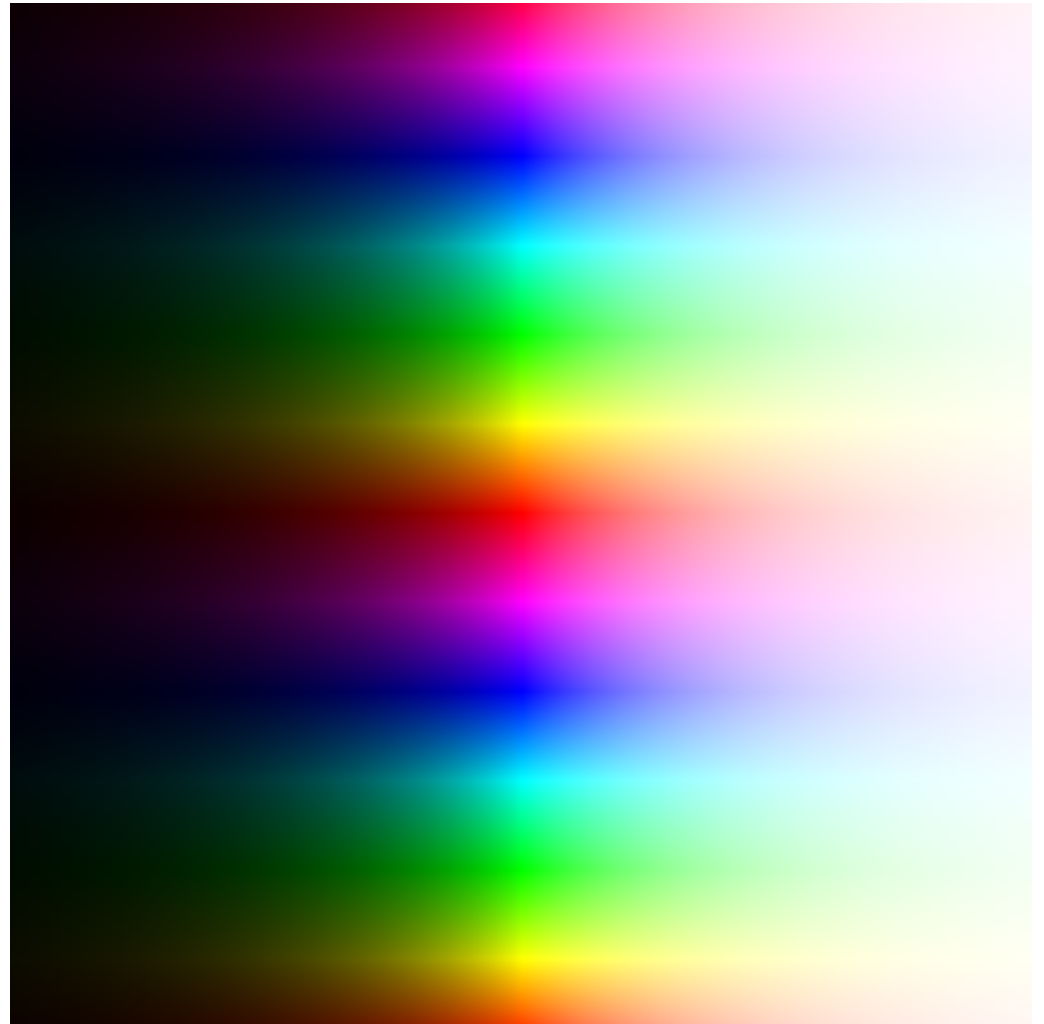
$$f(z) = \frac{1}{2}(z^5 - z^{-5})$$



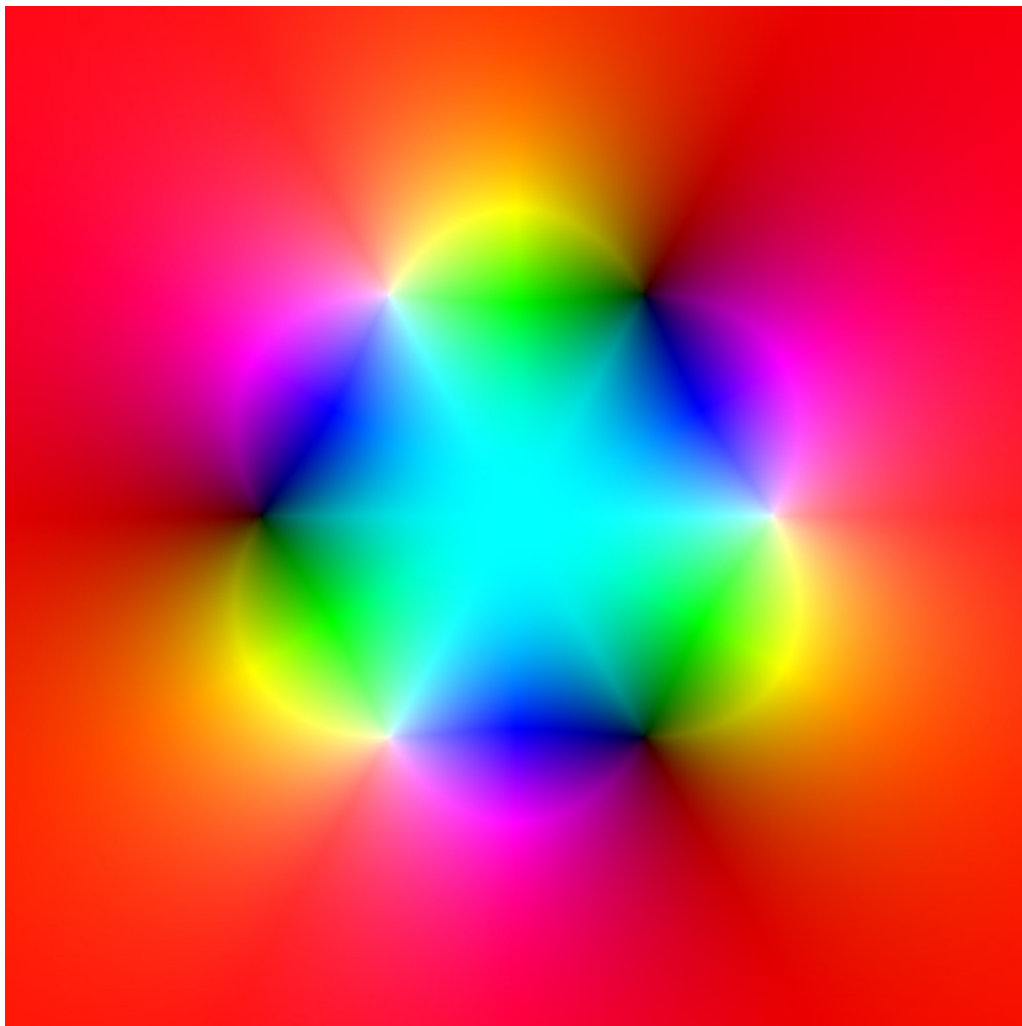
$$f(z) = \frac{1}{10}(z^5 - z^{-5})$$



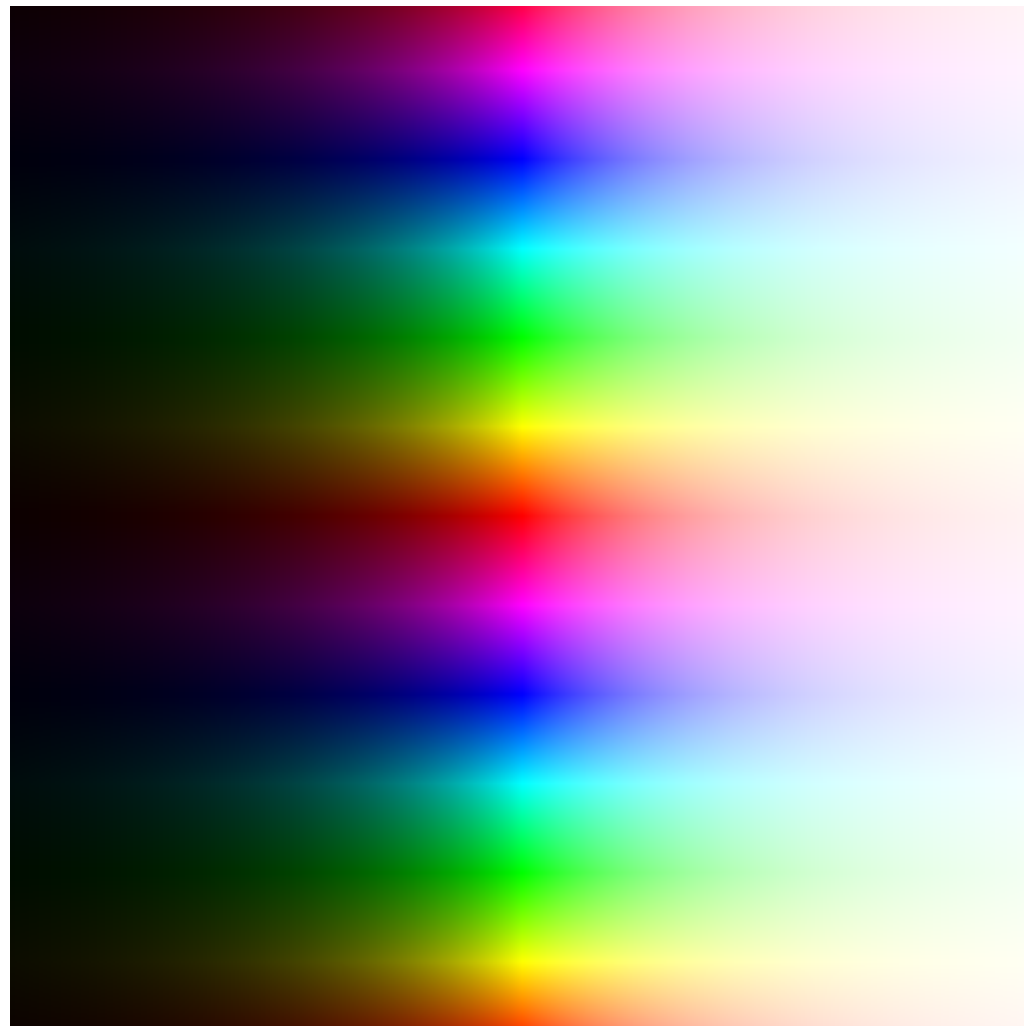
$$f(z) = ?$$



$$f(z) = ?$$



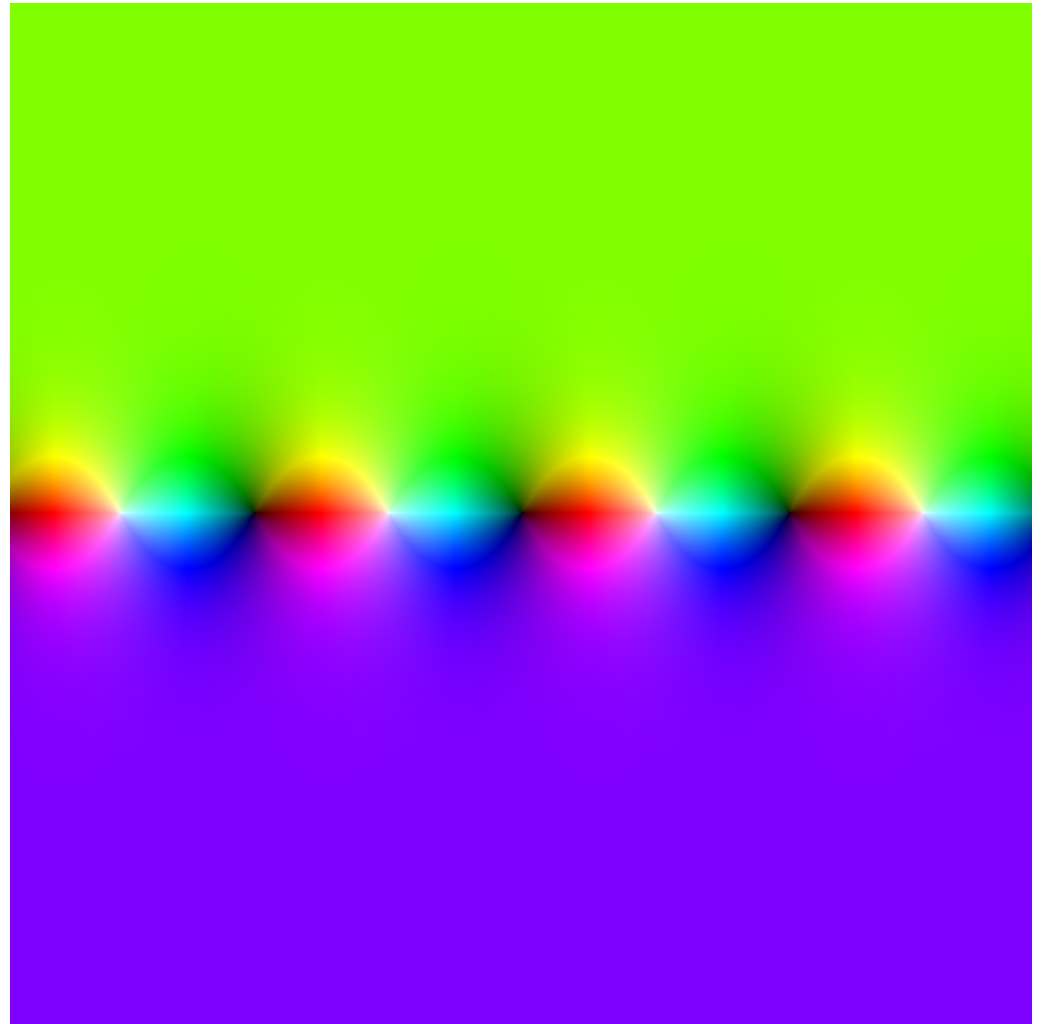
$$f(z) = \frac{z^3 + 1}{z^3 - 1}$$



$$f(z) = \exp(3z)$$



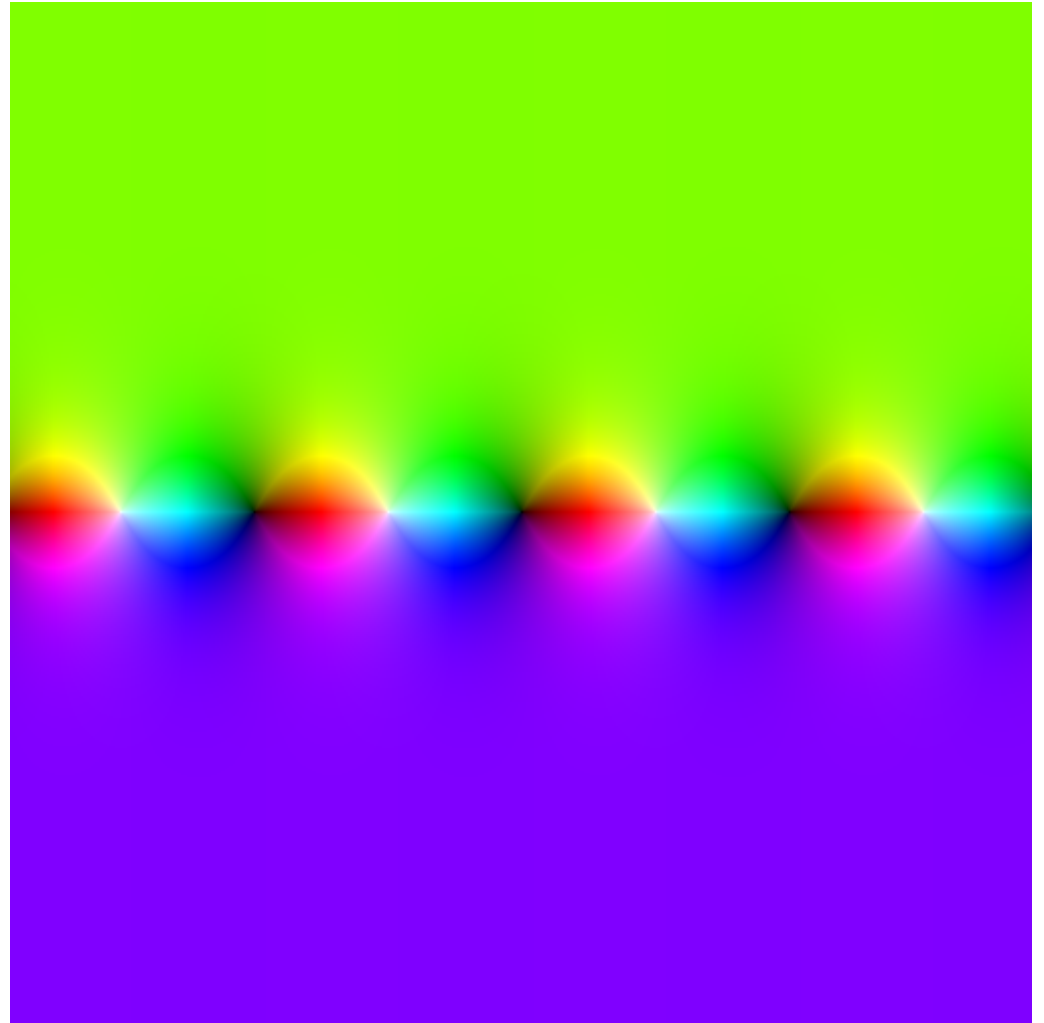
$$f(z) = ?$$



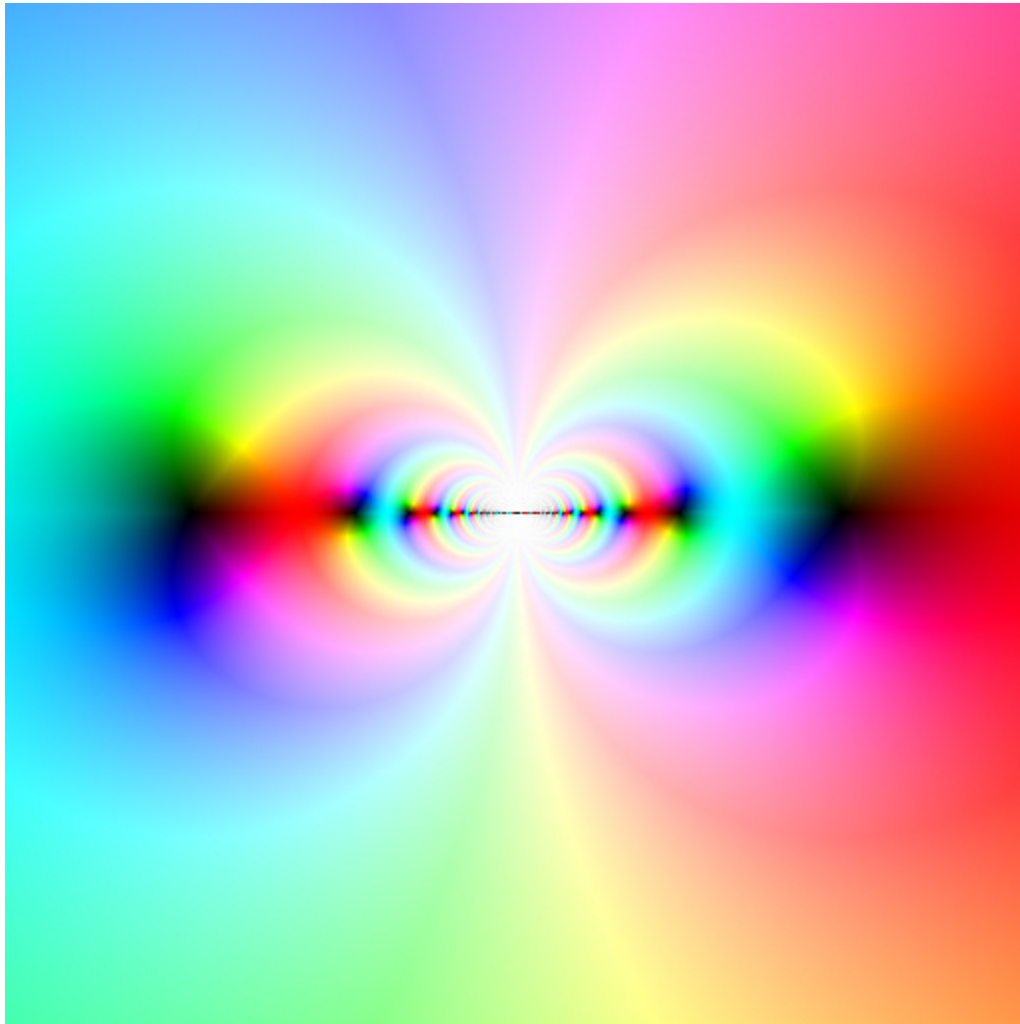
$$f(z) = ?$$



$$f(z) = \cos(3z)$$

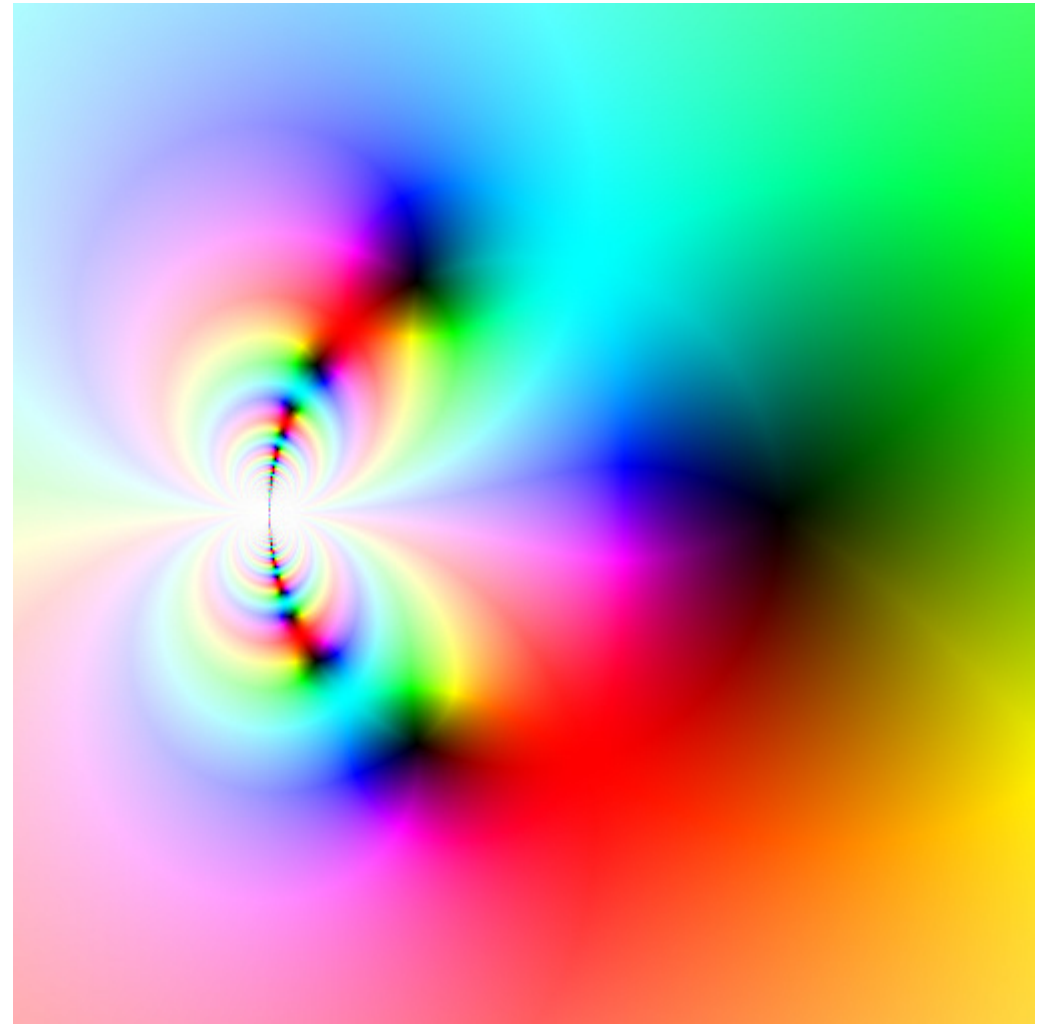


$$f(z) = \operatorname{tg}(3z)$$

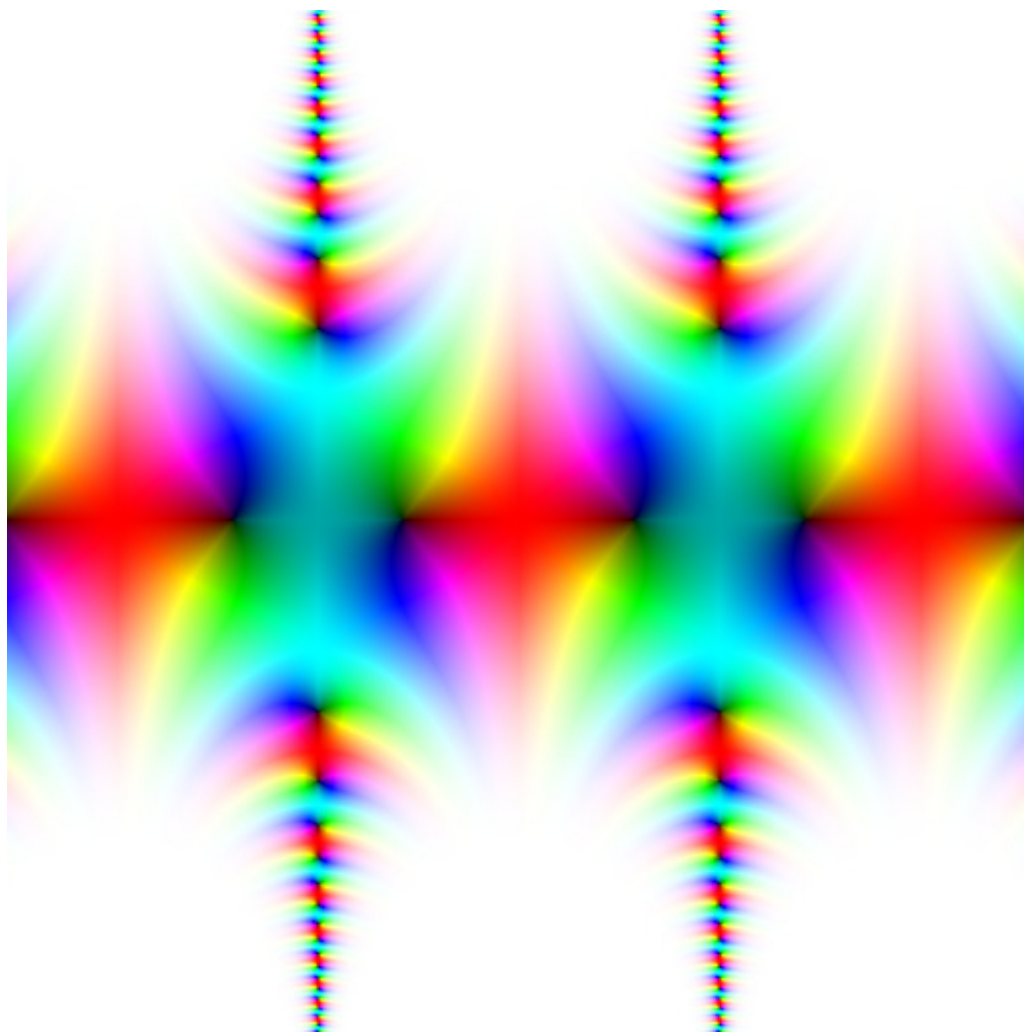


$$f(z) = \sin\left(\frac{8}{z}\right)$$

существенная особенность в $z = 0$



$$f(z) = \sin\left(2i \frac{z-1}{z+1}\right)$$



$$f(z) = \cos(2 \sin(2z))$$