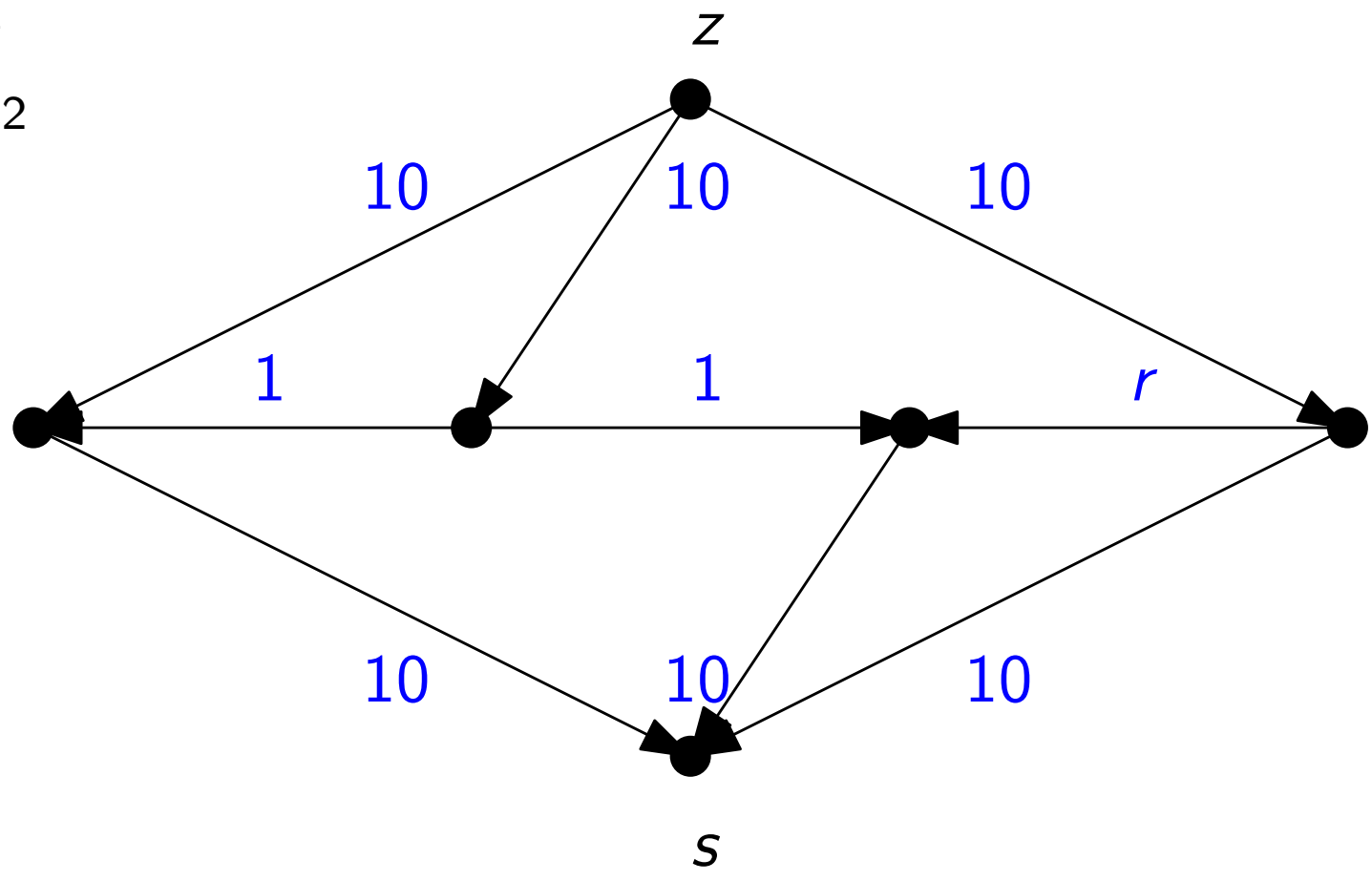
# Výchozí síť

$r = \frac{\sqrt{5}-1}{2}$

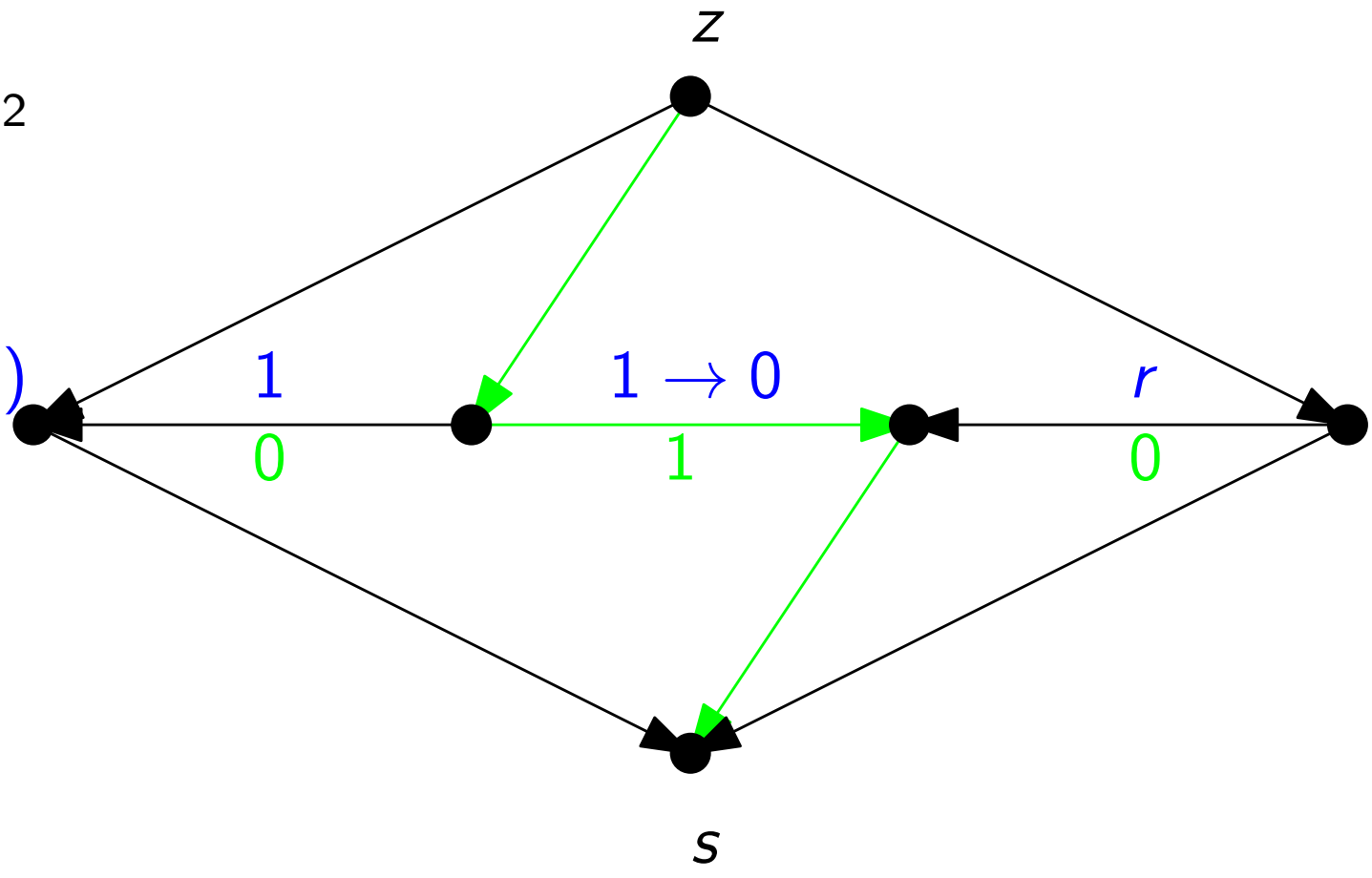
$1 - r = r^2$

$c(e)$



# Výchozí tok

$1 - r = r^2$




$w(f) = 1$

# 1. zlepšující cesta

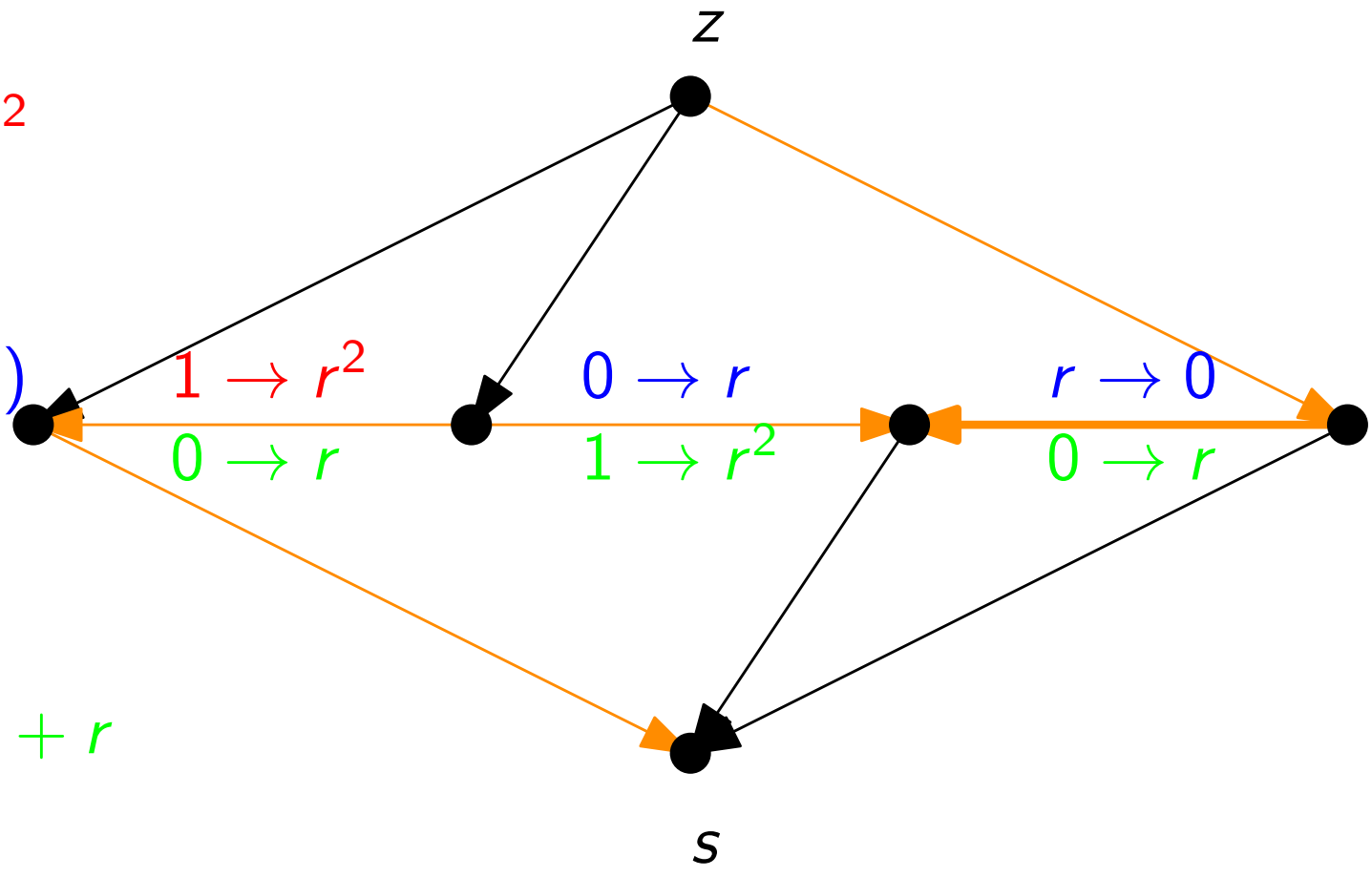
$1 - r = r^2$

$(c - f)(e)$ $1 \to r^2$ $0 \to r$ $r \to 0$

$f(e)$ $0 \to r$ $1 \to r^2$ $0 \to r$

$\varepsilon_P = r$

$w(f) = 1 + r$



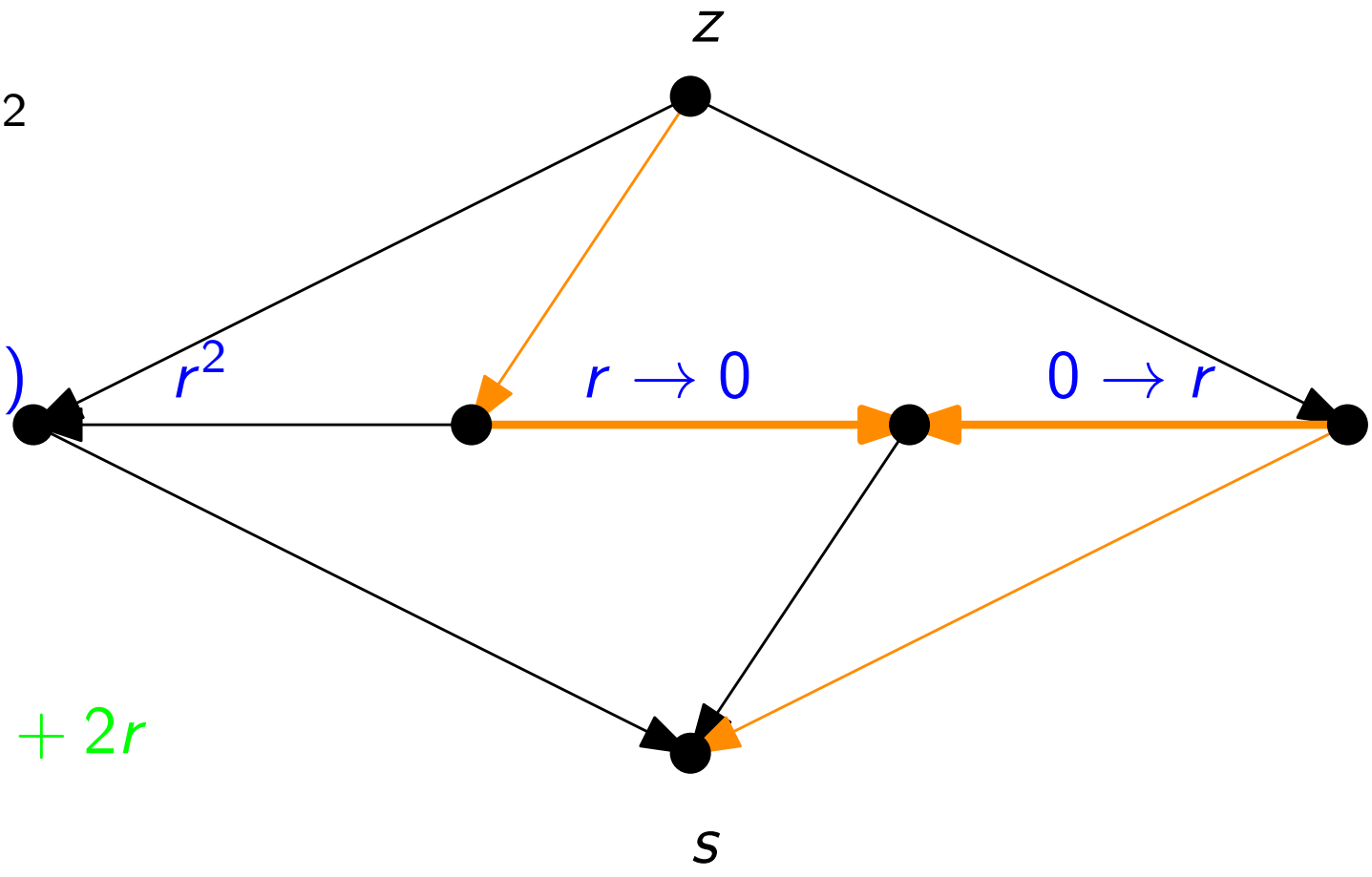
# 2. zlepšující cesta

$1 - r = r^2$

$(c - f)(e)$

$\varepsilon_P = r$

$w(f) = 1 + 2r$

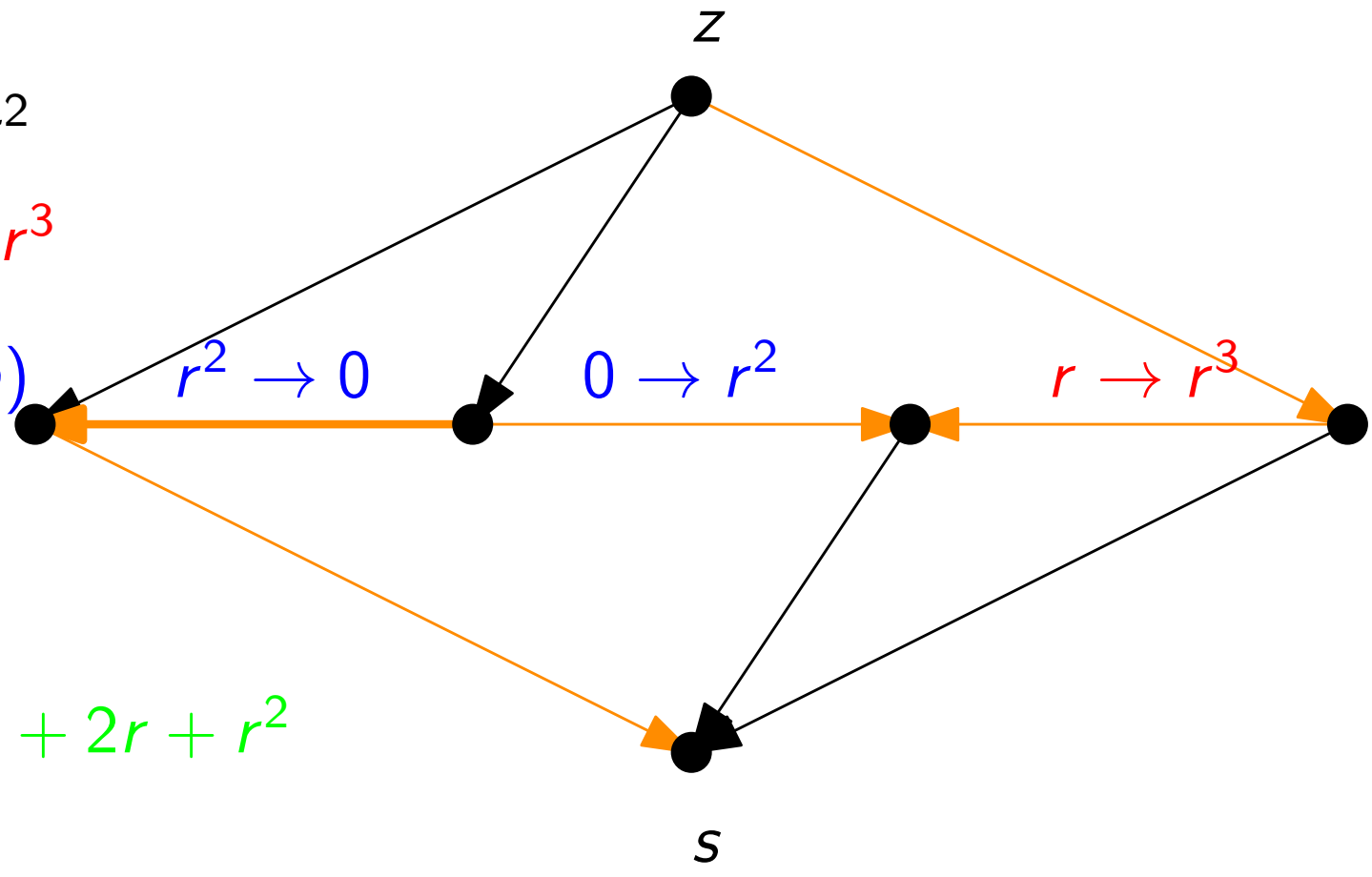


# 3. zlepšující cesta

$1 - r = r^2$

$r - r^2 = r^3$

$(c - f)(e)$

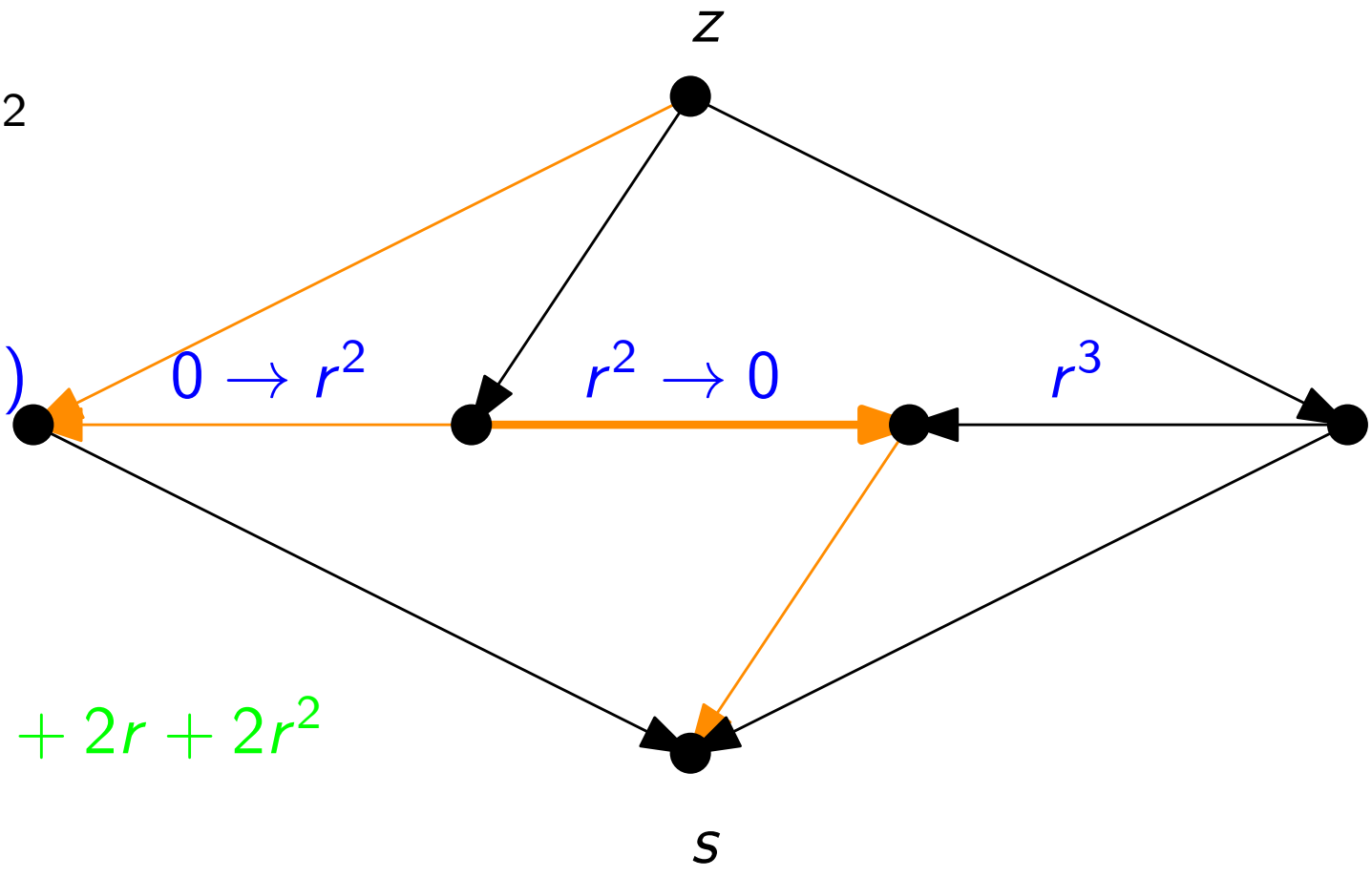



$\varepsilon_P = r^2$

$w(f) = 1 + 2r + r^2$

# 4. zlepšující cesta

$1 - r = r^2$




$\varepsilon_P = r^2$

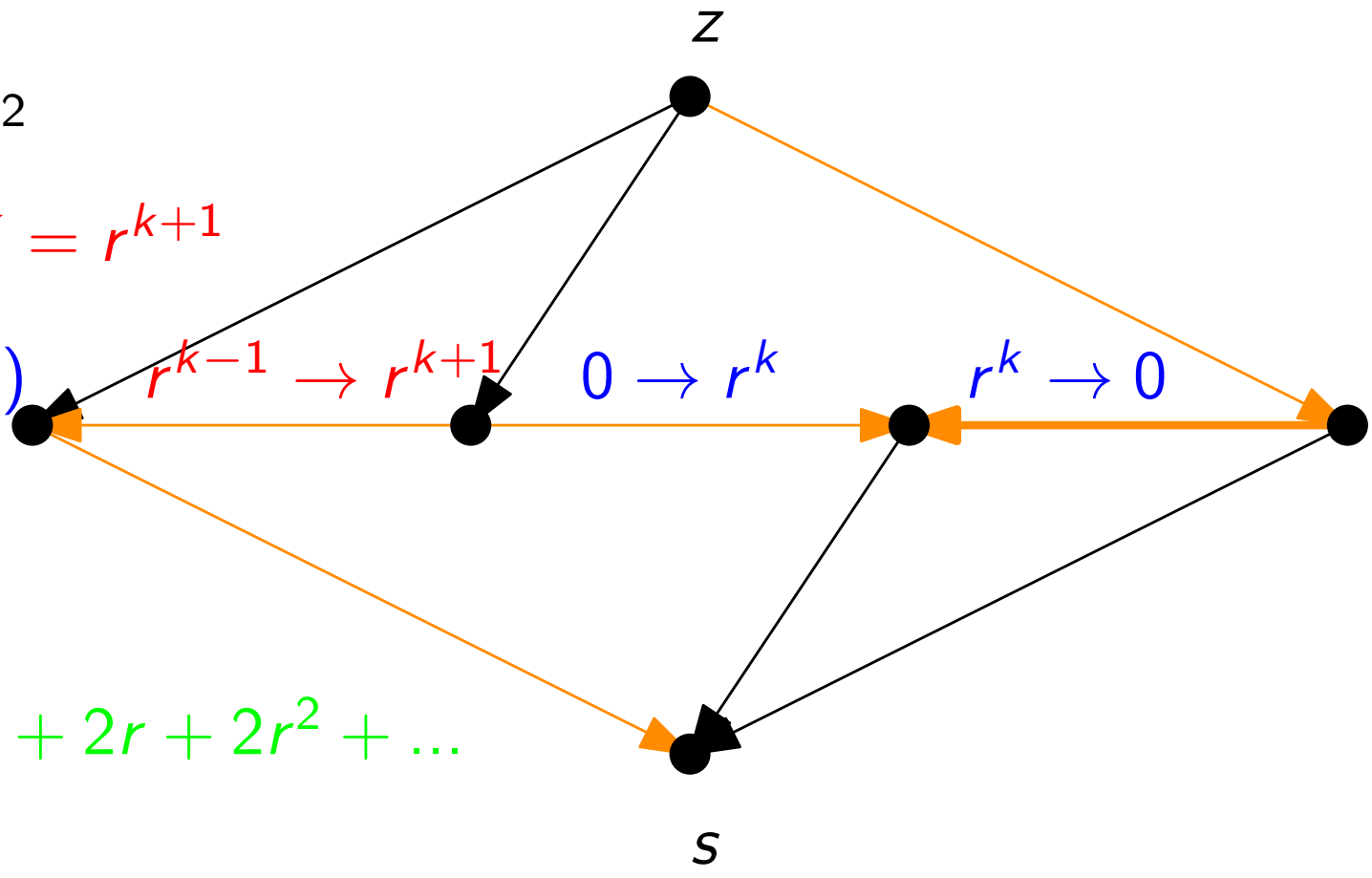
$w(f) = 1 + 2r + 2r^2$

# $2k-1$. zlepšující cesta

$1 - r = r^2$

$r^{k-1} - r^k = r^{k+1}$

$(c-f)(e)$




$\varepsilon_P = r^k$

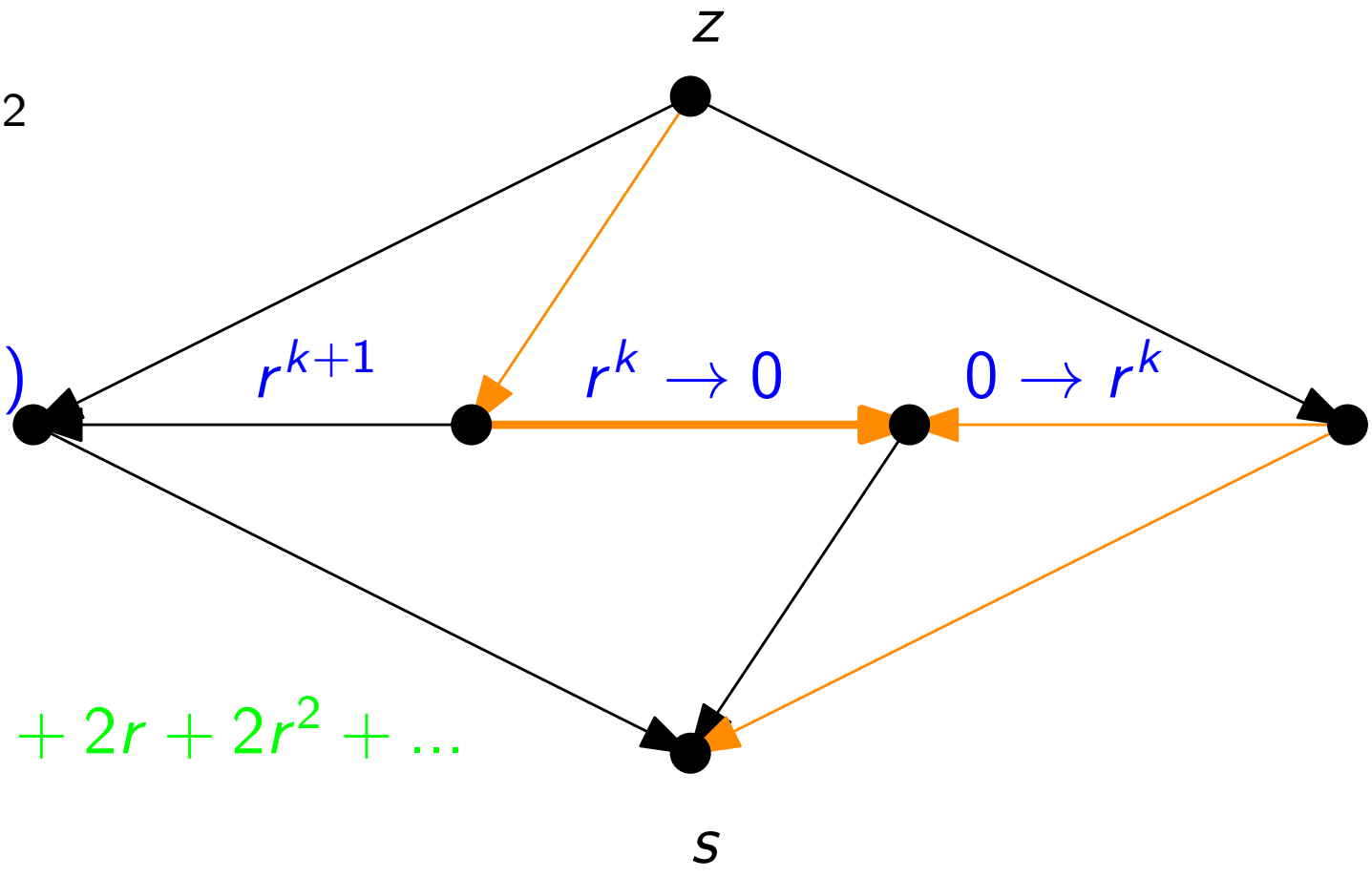
$w(f) = 1 + 2r + 2r^2 + \ldots$

$\ldots + r^k$

# $2k$. zlepšující cesta

$1 - r = r^2$

$(c - f)(e)$




$\varepsilon_P = r^k$

$w(f) = 1 + 2r + 2r^2 + \ldots$

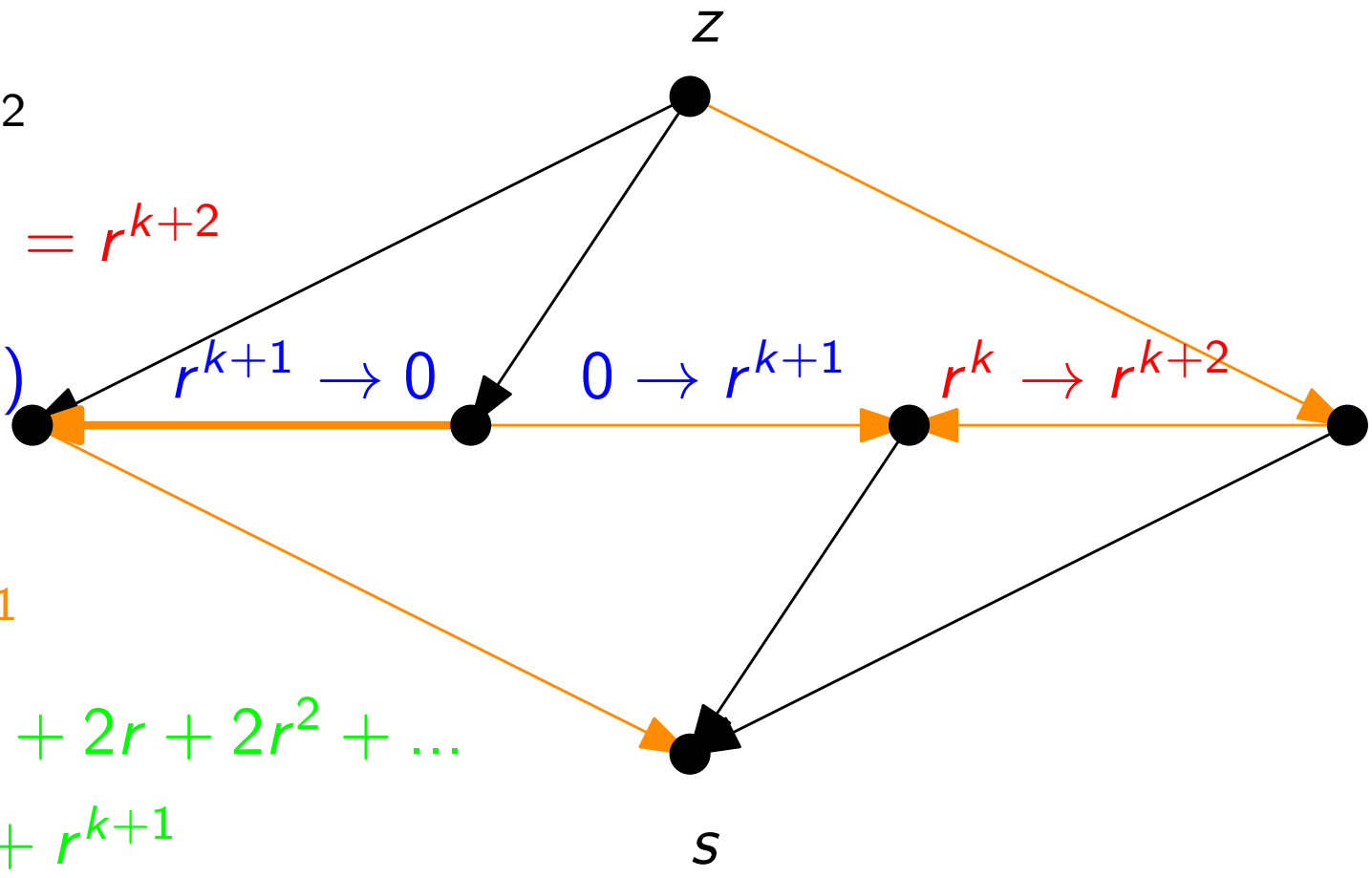
$\ldots + 2r^k$

# $2k+1$. zlepšující cesta

$1 - r = r^2$

$r^k - r^{k+1} = r^{k+2}$

$(c-f)(e)$



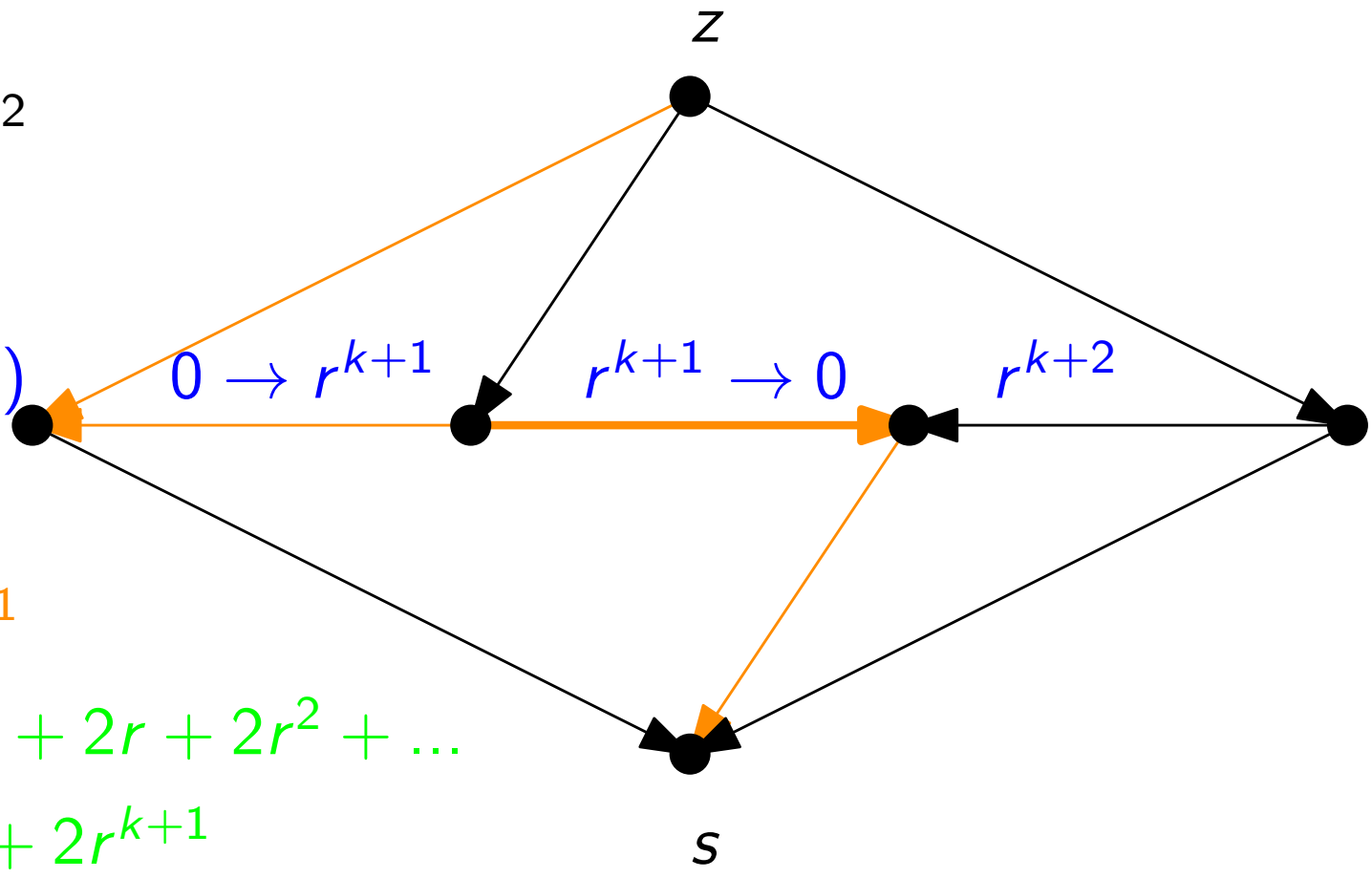

$\varepsilon_P = r^{k+1}$

$w(f) = 1 + 2r + 2r^2 + \ldots$

$\ldots + 2r^k + r^{k+1}$

# $2k + 2$. zlepšující cesta

$1 - r = r^2$



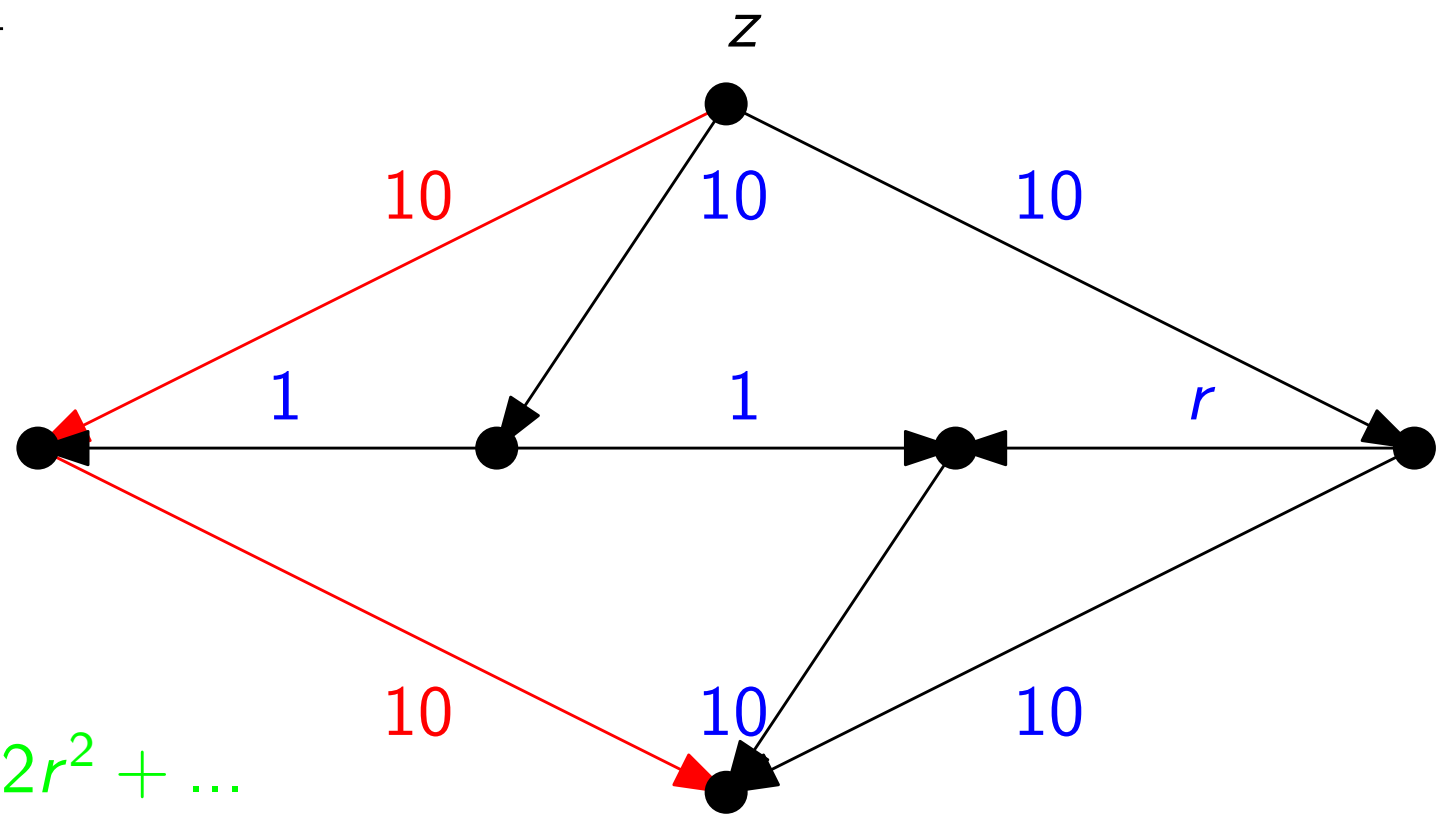

$\varepsilon_P = r^{k+1}$

$w(f) = 1 + 2r + 2r^2 + \ldots$

$\ldots + 2r^k + 2r^{k+1}$

# Limitní tok není maximální

$r = \frac{\sqrt{5}-1}{2}$




$1 + 2r + 2r^2 + \ldots$

$\ldots + 2r^k + 2r^{k+1} \to 2 + \sqrt{5}$

$w(f) = 10$