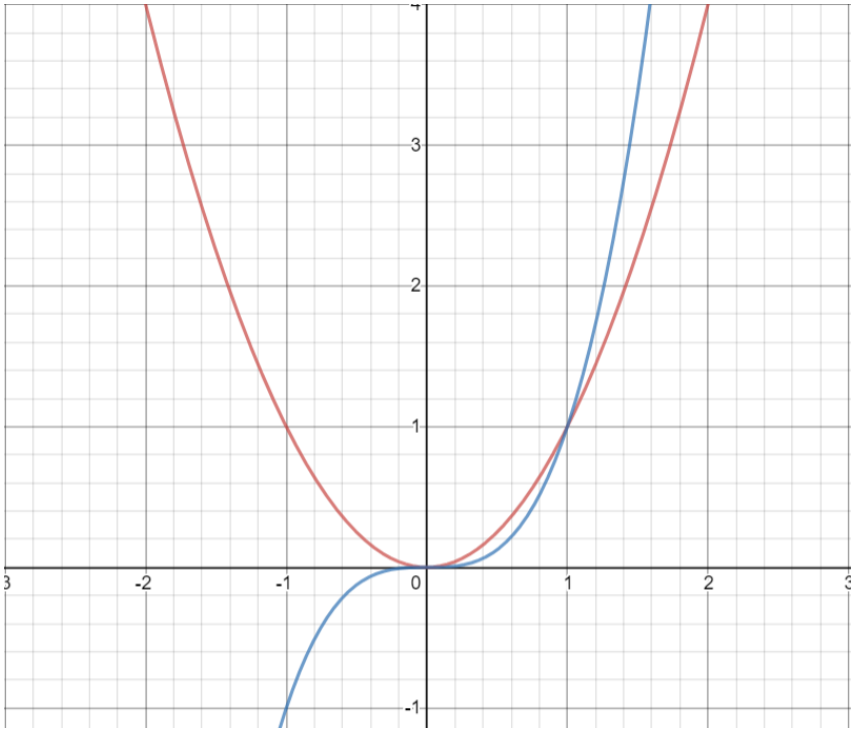
Z1: odredi je li procjena istinita

$f(n)$ *je reda* $\omega(g(n))$?



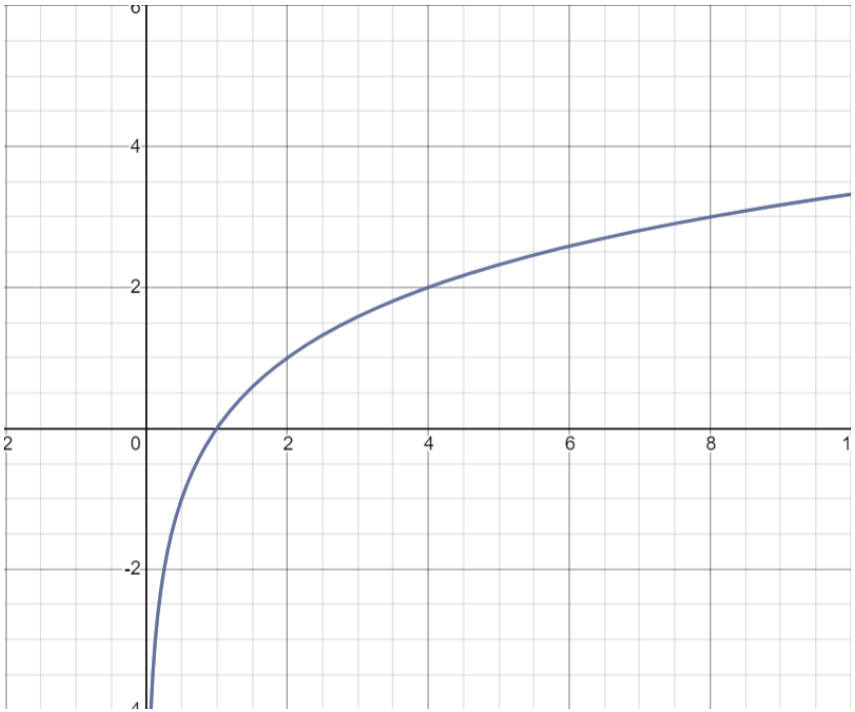
$$f(n) = n^3 + 4 \qquad g(n) = n^2$$
$$f_1(n) = n^3 \qquad g_1(n) = n^2$$

$$f_1(n) > g_1(n)$$
$$n^3 > n^2$$

Procjena je istinita

Z2: odredi je li procjena istinita

$f(n)$ *je reda* $\theta(g(n))$?



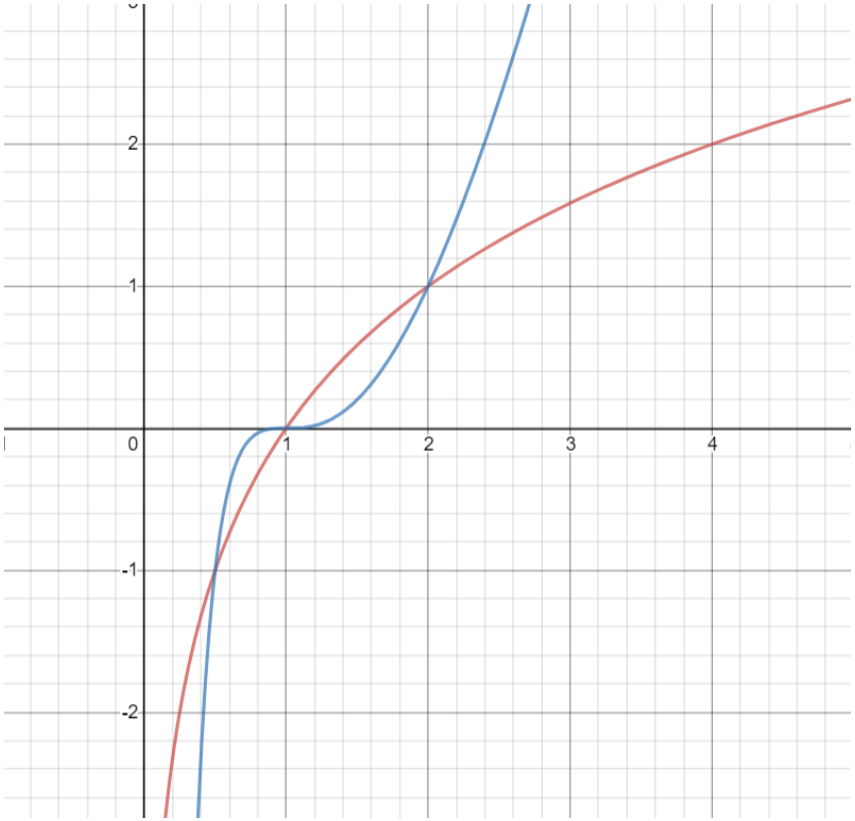
$$f(n) = n \log n^3 \qquad g(n) = n \log n$$
$$f_1(n) = n \log n \qquad g_1(n) = n \log n$$

$$f_1(n) = g_1(n)$$
$$n \log n = n \log n$$

Procjena je istinita

Z3: odredi je li procjena istinita

$f(n)$ *je reda* $\theta(g(n))$?



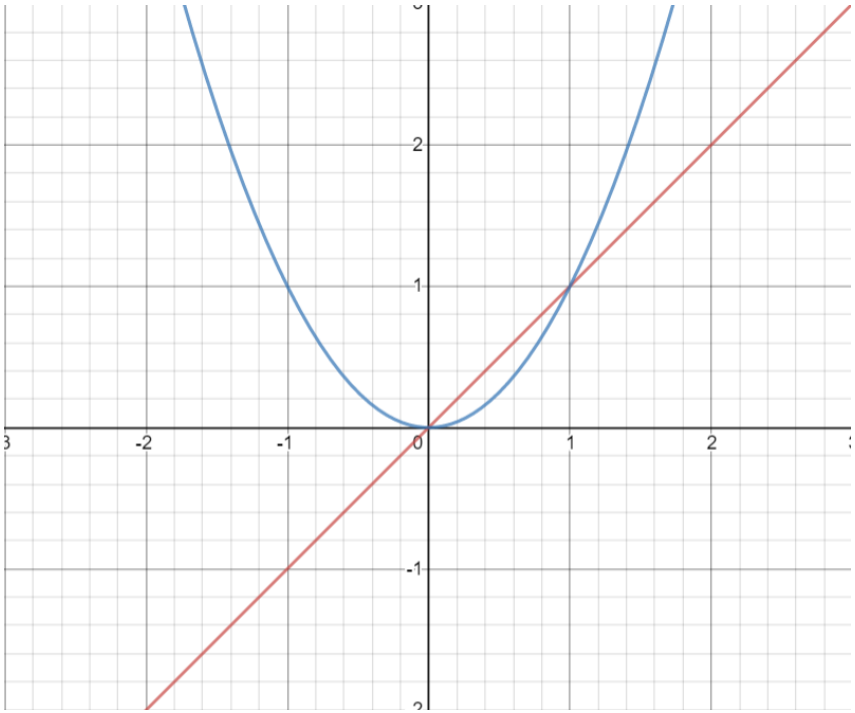
$$f(n) = \log^3 5n^2 \qquad g(n) = \log n$$
$$f_1(n) = \log^3 n \qquad g_1(n) = \log n$$

$$f_1(n) = g_1(n)$$
$$\log^3 n = \log n$$

Procjena nije istinita

Z4: odredi je li procjena istinita

$f(n)$ *je reda* $\theta(g(n))$?



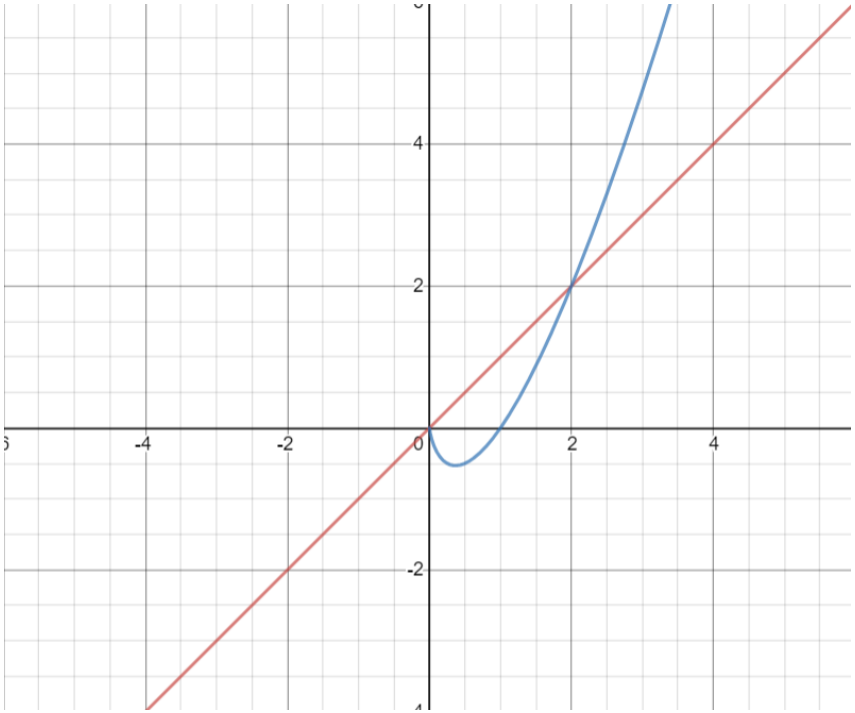
$$f(n) = 10^{-10}n^2 + n \qquad g(n) = n$$
$$f_1(n) = n^2 \qquad g_1(n) = n$$

$$f_1(n) = g_1(n)$$
$$n^2 = n$$

Procjena nije istinita

Z5: odredi je li procjena istinita

$f(n)$ *je reda* $\Omega(g(n))$?



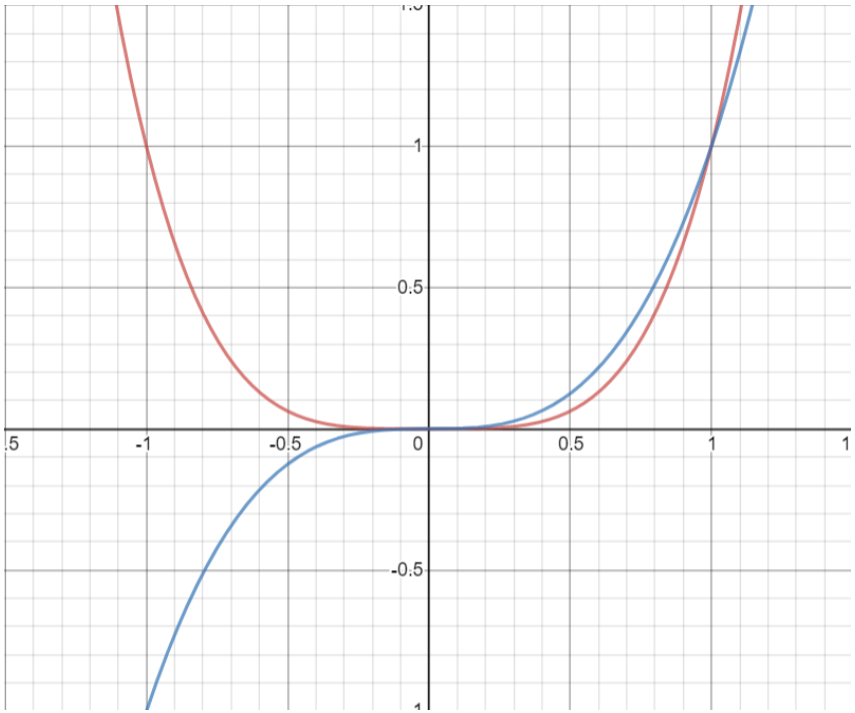
$$f(n) = n \log n \qquad g(n) = n$$
$$f_1(n) = n \log n \qquad g_1(n) = n$$

$$f_1(n) \geq g_1(n)$$
$$n \log n \geq n$$

Procjena je istinita

Z6: odredi je li procjena istinita

$f(n)$ *je reda* $o(g(n))$?



$$f(n) = n^3 + 4 \qquad g(n) = n^4$$
$$f_1(n) = n^3 \qquad g_1(n) = n^4$$

$$f_1(n) < g_1(n)$$
$$n^3 < n^4$$

Procjena je istinita