Example 7.1

Gentamycin adsorption on activated carbon follows the following isotherm:

\[ q = 15.1 y^{0.81} \]

q [mg/cm³ carbon]
y [mg/L]

We add 5 cm³ of previously unused carbon to 3.0 L of fermentation broth containing 46 mg/L gentamycin. What percent recovery is obtained?