**Example 7.1**

Gentamycin adsorption on activated carbon follows the following isotherm:

$$q = 15.1y^{0.81}$$

q [mg/cm$^3$ carbon]
y [mg/L]

We add 5 cm$^3$ of previously unused carbon to 3.0 L of fermentation broth containing 46 mg/L gentamycin.  What percent recovery is obtained?