Name: _____Key_____

*You must show your work to get full credit.*

**1.** Use your calculator to compute

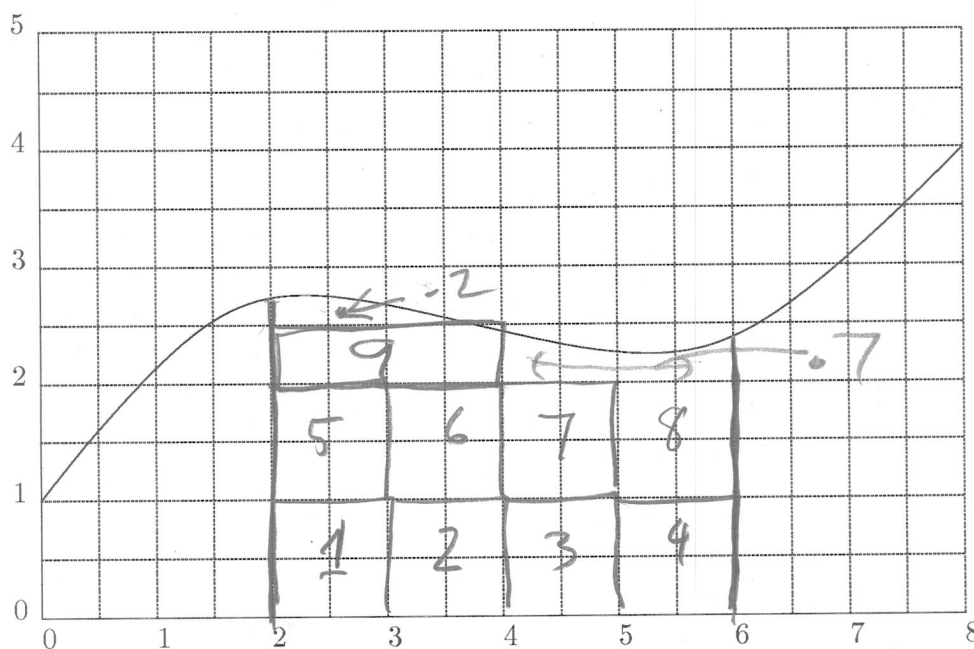$$\int_1^3 \frac{3^{x+1}}{x^2+4}\,dx$$

$$\int_1^3 \frac{3^{x+1}}{x^2+4}\,dx = \underline{\quad 7.1671 \quad}$$

fnInt ( 3^(x+1)/(x^2+4), X, 1, 3)

**2.** For the function, $f(x)$, given in the graph below, estimate

$$\int_2^6 f(x)\,dx.$$



$$\int_2^6 f(x)\,dx \approx \underline{\quad 9 + .2 + .7 = 9.9 \quad}$$

(anything close to this
is OK.)