How To Calculate Continuous Compound Interest

$$A = Pe^{rt}$$

$A = ?$
$P = \$2000$
$e = 2.71828...$
$r = 7.5\% = .075$
$t = 5$

$A = Pe^{rt}$

$A = \$2000 \cdot e^{(.075 \cdot 5)}$

$.075 \cdot 5 = .375$

$A = \$2000 \cdot e^{(.375)}$

$A = \$2000 \cdot 1.454.....$

$A = \$2909.98$