✓ **Congratulations! You passed!**

**TO PASS** 75% or higher

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Retake the assignment in **7h 50m**

GRADE
76.92%

# Graded quiz on Tangent Lines to Functions, Exponents and Logarithms

**LATEST SUBMISSION GRADE**

## 76.92%

1. Convert $\dfrac{1}{49}$ to exponential form, using $7$ as the factor.

`1 / 1 point`

○ $49^{-1}$

○ $(7^2)$

◉ $7^{-2}$

○ $\dfrac{7}{7^3}$

✓ **Correct**

The rule for a factor to a Negative exponent is to divide by the same factor to a positive exponent with the same absolute value.

2. A light-year (the distance light travels in a vacuum in one year) is $9,460$ trillion meters. Express in scientific notation.

`1 / 1 point`

○ $9460 \times 10^{12}$ meters

○ $9.46 \times 10^{15}$ kilometers

○ $0.946 \times 10^{16}$

◉ $9.46 \times 10^{15}$ meters.

✓ **Correct**

$9,460$ is $(9.4 \times 10^3)$ meters and one trillion meters is $10^{12}$ meters. $(9.4 \times 10^3)(10^{12}) = 9.4 \times 10^{15}$. A kilometer is $1000$ meters.