



**Congratulations! You passed!**

TO PASS 75% or higher

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GRADE

100%

# Practice quiz on Exponents and Logarithms

TOTAL POINTS 12

1. Re write the number  $784 = 2 \times 2 \times 2 \times 2 \times 7 \times 7$  using exponents.

1 / 1 point

- ☒  $(2^4)(7^2)$
- ☐  $(2^6)(7^6)$
- ☐  $(2 \times 7)^6$
- ☐  $(16^4)(49^2)$



Correct

For this type of problem, count the number of times each relevant factor appears in the product. That number is the exponent for that factor.

2. What is  $(x^2 - 5)^0$ ?

1 / 1 point

- ☒ 1
- ☐  $(x^2)$
- ☐  $(x^2) - 5$
- ☐  $-4$



Correct

Any real number (except zero) raised to the "zeroth" power = 1.

3. Simplify  $((x - 5)^2)^{-3}$

1 / 1 point

- ☐  $(x - 5)^{-1}$
- ☐  $(x - 5)^{-5}$
- ☒  $(x - 5)^{-6}$
- ☐  $(x - 5)$