Day 3~ Exponents HW

Student

- 1. Which is equivalent to 5^{-1} ?
 - A. $\frac{1}{25}$
 - B. $\frac{1}{5}$
 - C. -5
 - D. 4
- **2.** Which expression is equivalent to $20^8 \div 20^2$?
 - A. 4·20
 - **B.** 6.20
 - C. 20⁴
 - D. 20⁶
- 3. Which of the following represents $\frac{1}{16} \times \frac{1}{8}$ using exponential notation?
 - A. $(2^4)(2^3)$ B. $(2^4)(2^{-3})$ C. $(2^{-4})(2^3)$ D. $(2^{-4})(2^{-3})$
- 4. What is the value of the expression $8^{-2} \times 8^{3}$?
 - **A.** 64
 - **B**. 8
 - C. $\frac{1}{8}$
 - D. <u>1</u> 48

- 5. If $(-3)^5 \times (-3)^2 = (-3)^x$, what is the value of x?
 - A. 3B. 7
 - **C.** 10
 - **D.** 25
- 6.
- Which of the following is equivalent to $\frac{5}{49}$?
- A. $5(7^2)$ B. $\frac{1}{5(7^2)}$ C. $5 - 7^2$ D. $5(7^{-2})$
- 7. Which of the following is equivalent to $10 \times 10^4 \times 10^3 \times 10^{-5}$?
 - **A.** 10²
 - **B.** 10³
 - **C.** 10⁷
 - **D.** 10¹³
- 8. Which expression is equivalent
- to $\frac{(3^2 \times 3^{-4})}{3^2}$? A. -81 B. -12 C. $\frac{1}{12}$ D. $\frac{1}{81}$

- 9. Which expression is equivalent to $5^2 \times 5^6 \div 5^{-3}$?
 - **A.** 5⁴
 - **B.** 5⁵
 - **C.** 5⁹
 - **D.** 5¹¹
- 10. What is the value of the

