

## Algebra 1B Homework Check (7-1)

(Please attach homework to this sheet and fill out the questions below.)

**Pg. 449: 29-31, 38, 40, 48-57, 66-76 (even), 86-92 (even)**

Simplify.

29.  $-6^{-2}$

30.  $7^{-2}$

31.  $\left(\frac{2}{5}\right)^0$

Evaluate each expression for the given value(s) of the variable(s).

38.  $\left(\frac{2}{3}v\right)^{-3}$  for  $v = 9$

40.  $10m^{-1}n^{-5}$  for  $m = 10$  and  $n = -2$

Simplify.

48.  $4x^{-6}y^{-2}$

49.  $\frac{2f^0}{7g^{-10}}$

50.  $\frac{r^{-5}}{s^{-1}}$

51.  $\frac{s^5}{t^{-12}}$

52.  $\frac{3w^{-5}}{x^{-6}}$

53.  $b^0c^0$

54.  $\frac{2}{3}m^{-1}n^5$

55.  $\frac{q^{-2}r^0}{s^0}$

56.  $\frac{a^{-7}b^2}{c^3d^{-4}}$

57.  $\frac{h^3k^{-1}}{6m^2}$

66. **/// ERROR ANALYSIS ///** Look at the two equations below. Which is incorrect? Explain the error.

**A**

$$5x^{-3} = \frac{1}{5x^3}$$

**B**

$$5x^{-3} = \frac{5}{x^3}$$

Simplify.

68.  $c^{-4}d^3$

70.  $(a^2b^{-7})^0$

72.  $\frac{2a^{-5}}{b^{-6}}$

74.  $\frac{m^2}{n^{-3}}$

76.  $-\frac{20p^{-1}}{5q^{-3}}$

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Hour: \_\_\_\_\_

Find the missing value.

86.  $\frac{1}{4} = 2^{\square}$

88.  $\frac{1}{64} = \square^{-2}$

90.  $7^{-2} = \frac{1}{\square}$

92.  $3 \cdot 4^{-2} = \frac{3}{\square}$