

Name: _____

Date: _____

Negative Exponents and Negative Bases**Simplify.**

1) $-5^{-2} =$

2) $-\frac{25}{x^{-6}} =$

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

4) $\frac{4ab^{-2}}{-3c^{-2}}$

5) $(-\frac{1}{3})^{-2}$

6) $14a^{-6}b^{-7} =$

7) $(-\frac{x^{-2}}{3x^2})^{-3} =$

8) $20x^{-4}y^{-1} =$

9) $(-\frac{3}{4})^{-2}$

10) $-5x^{-2}y^{-3} =$



$$1) -5^{-2} =$$
$$-\frac{1}{25}$$

$$2) -\frac{25}{x^{-6}} =$$
$$-25x^6$$

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

$$4) \frac{4ab^{-2}}{-3c^{-2}} =$$
$$-\frac{4ac^2}{3b^2}$$

$$5) \left(-\frac{1}{3}\right)^{-2} =$$
$$9$$

$$6) 14a^{-6}b^{-7} =$$
$$-\frac{14}{a^6b^7}$$

$$7) \left(-\frac{x^{-2}}{3x^2}\right)^{-3} =$$
$$-81x^{12}$$

$$8) 20x^{-4}y^{-1} =$$
$$\frac{20}{x^4y}$$

$$9) \left(-\frac{3}{4}\right)^{-2} =$$
$$\frac{16}{9}$$

$$10) -5x^{-2}y^{-3} =$$
$$-\frac{5}{x^2y^3}$$