

Precalc Warm Up – 9/27/10

Name: _____ Period: _____

1) Evaluate the following expressions:

a. $2^3 =$

b. $3^2 =$

c. $5(3^2) =$

d. $3^4 =$

e. $\frac{32}{2^4} =$

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Precalc Negative Exponents

SKILL BUILDER

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Consider the following table and fill in the missing values:

32	2^5
16	2^4
8	$2^?$
?	2^2
2	2^1
1	$2^?$
$\frac{1}{2}$	$2^?$
?	?

Negative Exponents:

Examples of Evaluating Expressions with Negative Exponents:

1)

2)

3)

Practice

1) $4^{-1} =$

2) $8^{-1} =$

3) $2^{-3} =$

4) $4^{-2} =$

5) $15(5^{-1}) =$

6) $64(2^{-5}) =$

7) $9(3^{-4}) =$

8) $0.1(10^{-1}) =$

9) $10(10^{-2}) =$

10) $49(7^{-2}) =$

Negative Exponents with Fractions

Examples

1)

2)

3)

Practice

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

$$2) \left(\frac{5}{8}\right)^{-1} =$$

$$3) \left(\frac{2}{3}\right)^{-2} = \frac{1}{\left(\frac{2}{3}\right)^2} = \frac{1}{\frac{2^2}{3^2}} = \frac{1}{\frac{4}{9}} = \frac{9}{4}$$

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

$$5) \left(\frac{3}{4}\right)^{-2} =$$

$$6) \left(\frac{1}{3}\right)^{-2} =$$

$$7) \left(\frac{5}{7}\right)^{-3} =$$

$$8) \left(\frac{3}{2}\right)^{-5} =$$

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

$$10) \quad \left(\frac{6}{3}\right)^{-3} =$$

$$11) \quad \left(\frac{5}{2}\right)^{-3} =$$

$$12) \quad 5\left(\frac{5}{1}\right)^{-1} =$$

$$13) \quad \frac{1}{2}\left(\frac{1}{2}\right)^{-1} =$$

$$14) \quad 10\left(\frac{1}{2}\right)^{-3} =$$

$$15) \quad 0.5\left(\frac{1}{2}\right)^{-1} =$$

$$16) \quad 0.2\left(\frac{1}{5}\right)^{-1} =$$

$$17) \quad 0.1\left(\frac{1}{10}\right)^{-2} =$$

$$18) \quad 0.25\left(\frac{1}{4}\right)^{-3} =$$

Precalc – Exit Slip – 9/27/10

Name: _____

Block: _____

Evaluate the following expressions:

1) $5^{-1} =$

2) $7^{-2} =$

3) $5(2^{-3}) =$

4) $\left(\frac{1}{2}\right)^{-4} =$

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

Precalc – Exit Slip – 9/27/10

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1) $5^{-1} =$

2) $7^{-2} =$

3) $5(2^{-3}) =$

4) $\left(\frac{1}{2}\right)^{-4} =$

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