Lesson 2.5: Exponents with Negative Bases

Targets

1. I understand how exponents work.
2. I can use exponents with negative bases.

Exponents with Negative Bases

First, attempt these problems on your own. Then watch the video and copy the notes.

Your attempt:

$(-3)^1 =$

$(-3)^2 =$

$(-3)^3 =$

$(neg)^{even} =$

$(neg)^{odd} =$

Video Notes:

$(-3)^1 =$

$(-3)^2 =$

$(-3)^3 =$

$(neg)^{even} =$

$(neg)^{odd} =$

Patterns in Raising 1 and -1 to Different Powers

First, attempt these problems on your own. Then watch the video and copy the notes.

Your attempt:

$1^{8} =$

$1^{0} =$

$(-1)^0 =$

$(-1)^1 =$

$(-1)^2 =$

$(-1)^3 =$

$(-1)^4 =$

Video Notes:

$1^{8} =$

$1^{0} =$

$(-1)^0 =$

$(-1)^1 =$

$(-1)^2 =$

$(-1)^3 =$

$(-1)^4 =$

Powers of Zero

First, attempt these problems on your own. Then watch the video and copy the notes.

Your attempt:

$0^{1} =$

$0^{2} =$

$0^{(nonzero\ number)} =$

$(nonzero\ number)^{0} =$

Video Notes:

$0^{1} =$

$0^{2} =$

$0^{(nonzero\ number)} =$

$(nonzero\ number)^{0} =$

Khan Activity: <u>Whole Number Exponents with Integer Bases</u>

Complete this activity on Khan.

Raising a Number to the 0 and 1 Powers

First, attempt these problems on your own. Then watch the video and copy the notes.

<u>Your attempt:</u>	<u>Video Notes:</u>
$(-2)^3 =$	$(-2)^3 =$
$2^0 =$	$2^0 =$
$2^1 =$	$2^1 =$
$2^2 =$	$2^2 =$
$2^3 =$	$2^3 =$

Khan Activity: <u>Whole Number Exponents with Integer Bases 2</u>

Complete this activity on Khan.

Exit Ticket

1. Have all your notes filled out above.

2. Complete the following Khan Academy Activities: **<u>Whole Number Exponents with Integer Bases</u>**

3. Complete the following Khan Academy Activities: **<u>Whole Number Exponents with Integer Bases 2</u>**