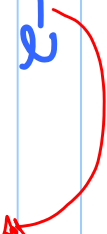


1.3 NEGATIVE EXPONENTS

p. 20

* DOES NOT ACTUALLY MEAN "NEGATIVE"

IT MEANS "WRITE THE RECIPROCAL"
(FLIP IT!)

ex) 3^{-2}  "WRITE THE BASE IN ITS RECIPROCAL POSITION"

$$= \frac{3}{1}^{-2}$$

$$= \frac{1}{3^2} = \frac{1}{9}$$

ex) 2^{-4} *Flip it!*
mult. it by itself 4 times

$$= \frac{1}{2^4} = \frac{1}{2 \cdot 2 \cdot 2 \cdot 2} = \frac{1}{16}$$

ex) $\frac{1}{4^{-3}} = 4^3 = 4^3 = 64$

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

ex) $x^{-5} = \frac{1}{x^5}$

$$\text{ex) } \left(\frac{2}{3} \right)^{-3} = \left(\frac{3}{2} \right)^3 = \frac{3^3}{2^3} = \frac{27}{8}$$

$$\text{ex) } \left(\frac{1}{n} \right)^{-2} = \left(\frac{n}{1} \right)^2 = \frac{n^2}{1^2}$$

$$\text{ex) } \left(\frac{3b}{4} \right)^{-4} = \left(\frac{4}{3b} \right)^4 = \frac{4^4}{3^4 b^4} = \frac{256}{81b^4}$$

p. 24 # 1-9 EXPERT

1, 2, 3 abc fh; APPRENTICE

1, 2, 3 abc NOVICE

* MAY NEED CALCULATOR

* REMEMBER "BE D/M A/S"