Exponents and Polynomials

ARE YOU READY? PAGE 443

17.
$$(-1)^6$$

= $(-1)(-1)(-1)(-1)(-1)(-1)(-1)$
= 1

22.
$$8y - 4x + 2y + 7x - x$$

= $8y + 2y - 4x + 7x - x$
= $10y + 2x$

26. yes;
$$\sqrt{81} = \sqrt{9^2} = 9$$
 27. yes; $\sqrt{36} = \sqrt{6^2} = 6$

29. ves:
$$\sqrt{100} = \sqrt{10^2} = 10$$

30. yes:
$$\sqrt{4} = \sqrt{2^2} = 2$$

30. yes;
$$\sqrt{4} = \sqrt{2^2} = 2$$
 31. yes; $\sqrt{1} = \sqrt{1^2} = 1$

7-1 INTEGER EXPONENTS. PAGES 446-451

CHECK IT OUT! PAGES 447-448

1.
$$5^{-5} = \frac{1}{5^{5}} = \frac{1}{5 \cdot 5 \cdot 5} = \frac{1}{125}$$

 5^{-5} m is equal to $\frac{1}{125}$ m.

2a.
$$10^{-4} = \frac{1}{10^4} = \frac{1}{10 \cdot 10 \cdot 10 \cdot 10} = \frac{1}{10,000}$$

b.
$$(-2)^{-4} = \frac{1}{(-2)^4} = \frac{1}{(-2)(-2)(-2)(-2)} = \frac{1}{16}$$

c.
$$(-2)^{-5} = \frac{1}{(-2)^5} = \frac{1}{(-2)(-2)(-2)(-2)(-2)} = -\frac{1}{32}$$

d.
$$-2^{-5} = -\frac{1}{9^5} = -\frac{1}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2} = -\frac{1}{32}$$

3a.
$$p^{-3}$$
= 4^{-3}
= $\frac{1}{4^{3}}$
= $\frac{1}{4 \cdot 4 \cdot 4}$
= $\frac{1}{64}$

b.
$$8a^{-2}b^0$$

 $= 8(-2)^{-2}(6)^0$
 $= 8 \cdot \frac{1}{(-2)^2} \cdot 1$
 $= 8 \cdot \frac{1}{(-2)(-2)}$
 $= 8 \cdot \frac{1}{4}$
 $= 2$

4a.
$$2r^{0}m^{-3} = 2 \cdot r^{0} \cdot m^{-3}$$
 b. $\frac{r^{-3}}{7} = r^{-3} \cdot \frac{1}{7}$
 $= 2 \cdot 1 \cdot \frac{1}{m^{3}}$ $-\frac{1}{r^{2}} \cdot \frac{1}{7}$
 $= \frac{2}{m^{3}}$ $-\frac{1}{7} \cdot \frac{1}{7}$

b.
$$\frac{r^{-3}}{7} = r^{-3} \cdot \frac{1}{7}$$

= $\frac{1}{r^2} \cdot \frac{1}{7}$
= $\frac{1}{7}r^3$

c.
$$\frac{g^4}{h^{-6}} = g^4 \cdot \frac{1}{h^{-6}}$$

$$= g^4 \cdot h^6$$

$$= g^4 h^6$$

THINK AND DISCUSS, PAGE 448



For a respective executive at the physics rather, whose lifes premier to little demonstrator and change the legister. exponent to a positive expenses. provided provident 2 to a. A.

description of the polymer had the numerotics and Change the negative properties to a people or argument which will propose without

EXERCISES, PAGES 449-451

GUIDED PRACTICE, PAGE 449.

1.
$$10^{-7} = \frac{1}{10^7} = \frac{1}{10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10} = \frac{1}{10.000,000} m$$

 $= \frac{1}{10.000,000} m$

2.
$$6^{-2} = \frac{1}{6^2} = \frac{1}{6 \cdot 6} = \frac{1}{36}$$
 3. $3^0 = 1$
4. $-5^{-2} = -\frac{1}{6^2} = -\frac{1}{5 \cdot 6} = -\frac{1}{26}$

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