P. 320 Powers of Monomials Oct 15

1. $(x)^2 \rightarrow (x)(x)$

$= x^2$

2. $(a)^3$

$= a^3$

3. $(p)^5$

$= p^5$

4. $(n^2)^2 \rightarrow (n^2)(n^2)$

$= n^4$

power law

5. $(-t^3)^2 \Rightarrow = (-t^3)(-t^3)$

$= t^6$ $= t^{3+3}$

$= t^6$

6. $(-y^2)^3$

$= -y^6$

7. $(x^2)^3$

$= x^6$

8. $(y^3)^2$

$= y^6$

9. $(m^2)^2$

$= m^4$

16. $(-5)^{10}{}^2$

$= 5^{20}$

18.

$$-\left(-b^0\right)^3$$

$$= -\left(-b^0\right)$$

$$= -\left(-1\right)$$

$$= 1$$

Anything to the power of zero = 1.

-8^0 $\quad 25^0$

19. $(xy)^2 \to (xy)(xy)$

$= x^2y^2$ $\quad = 2^2y^2$

21. $(-x^1y^1)^2$

$= x^2y^2$

24. $(-2xt)^2$

$= 2^2x^2t^2$

$= 4x^2t^2$

39. $(4x^4)^2$

$= 4^2 x^8$

$= 16x^8$

43. $(-2n^2)^3$

$= (-2^3 n^6)$

$= -8n^6$

48. $-(3xy^0)^2 - (9x^2(1)$

$= -(3^2x^2y^0) = -9x^2$

51. $(2x^2y^3)^2(x^2y)$

$= (2^2x^4y^6)(x^2y)$

$= 4x^6y^7$

Finish pg 317 Questions

pg 318-320 All homework questions