Warm Up November 8, 2018

Solve the equations below for the specified variable:

1.) P=2L+2W; W

$-2L \quad -2L$

$\frac{P-2L}{2} = \frac{2W}{2}$

$W = \frac{P-2L}{2}$

2.) A=(1/2)bh; b

$A = \frac{1}{2}bh$

$\frac{2A}{h} = \frac{bh}{h}$

$b = \frac{2A}{h}$

3.) Write the equation of the line that fits the table.

$m = 4$ $\quad \hookrightarrow y = mx + b$

$b = 7$

$y = 4x + 7$

x 0	y 7
1	11
2	15
3	19
4	23
5	27

4.) Write the equation of the line that passes between the points (2, 4) and (2,-11).

$m = \frac{-11-4}{2-2} = \frac{-15}{0} = \text{undef.}$

$x = 2$

Multiplying Monomials

▪ **Step 1:** Multiply the coefficients. ▪ **Step 2:** Add the exponents	**PRODUCT RULE:** $(x^a)(x^b) = x^{a+b}$

EASY

1. $x^2 \cdot x^3$ $x^{2+3} = x^5$	**2.** $a^9 \cdot a$ $a^9 + a^1$ a^{10}	**3.** $(4x^2)\cdot(3x^5)$ $12x^7$

MEDIUM

7. $(8x^4y^2)(-3x^4y^9)$ $-24x^8y^{11}$	**8.** $2y \cdot -5y^2 \cdot 3y^3$ $-30y^6$	**9.** $(-2xy)(xy)(3x^2y^3)$ $-6x^4y^5$

HARD

16. $\boxed{(2x^5y^2)(4xy^3)} + \boxed{(x^4y^4)(3x^2y)}$ $8x^6y^5 + 3x^6y^5$ $11x^6y^5$	**17.** $\boxed{(4a^3b^4)(5ab^2)} + \boxed{(a^2b^5)(-2a^2b)}$ $20a^4b^6 - 2a^4b^6$ $18a^4b^6$

1) $a(4a+3)$

$a \cdot 4a$ $\quad$ $a \cdot 3$

$4a^2 + 3a$

$a(4a+3)$

$4a^2 + 3a^1$

$2(4a+3)$

$8a+6$

Classwork: HW #2 Monomial x Polynomial

Answers listed below in no particular order.

$-11c^2 - 4c$

$2y^2 - 8y$

$6x^2 + 8x$

$5z^2 - 5z$

$2x^2 - 5x$

$20a^3 - 7a$

$4a^2 + 3a$

$-4y^3 - y^2$

$6n^4 - 6n^3 - 12n^2$

$-3n^3 - 6n^2$

$12h^2 - 20h$

$3w^2 + 7w$

$6x^3 - 3x^2 + 8x$

$18b^2 + 2b + 8$

$7c^4 - 14c^3 + 35c$

$12n^3 + 5n^2 - 19n$

$15x^3 - 3x^2 + 12x$

$x^3 - 2x^2 - 10x$

$6m^2 + 6m - 3$

$28x^2 - 6x - 12$