Math 5b, homework 7.



1. Write without parenthesis and simplify if possible:

a.
$$-(a-b)$$
; $b.-(c+d)$;

$$b.-(c+d)$$

c.
$$-(-x+v)$$
:

$$c. - (-x + y);$$
 $d. -m + (a - c);$

e.
$$d - (-k + m)$$
:

$$f. p - (-n + k - l);$$

e.
$$d - (-k + m)$$
; f. $p - (-n + k - l)$; g. $c - (b + c - a) + (-a + b)$;

2. Multiply.

a.
$$(a+1)(a+3)$$

$$h (3+v)(v-4)$$

a.
$$(a+1)(a+3)$$
; b. $(3+y)(y-4)$; c. $(c+d)(c-2d)$;

d.
$$(3+x)(3-x)$$

e.
$$(v-2)(3-v)$$

d.
$$(3+x)(3-x)$$
; e. $(y-2)(3-y)$; f. $(x-y)(x+y)$;

3. Solve the equations:

$$a. 2a - (14 - 3a) = -10;$$

b.
$$2.6y - 0.2(3y - 9) = -0.5 \cdot (2y + 6)$$
;

c.
$$\frac{5}{12}$$
· $(c-3) - \frac{1}{6}(2c-7) = 2$

- 4. *The inhabitants of the Unknown Planet, divide the day into several hours, an hour into several minutes, and a minute into several seconds. However, on their planet, there are 77 minutes in a day and 91 seconds in an hour. How many seconds are in a day on the Unknown Planet?
- 5. Draw two (straight) lines and mark five points on these lines so that each line has 3 points.
- 6. Draw four (straight) lines and mark six points on these lines so that each line has 3 points.
- 7. Write number 20 and 200 in a 12 based system. (If you need, you can use letters a and b for missing digits)
- 8. Solve the riddle (each letter represents a unique digit):