

# Algebra and the Number Plane (1a) name .....

1) If  $a = 2$ ,  $b = 5$  and  $c = 6$  find

a)  $a + b + c$   
=   
=

b)  $b^2 + 3$   
=   
=

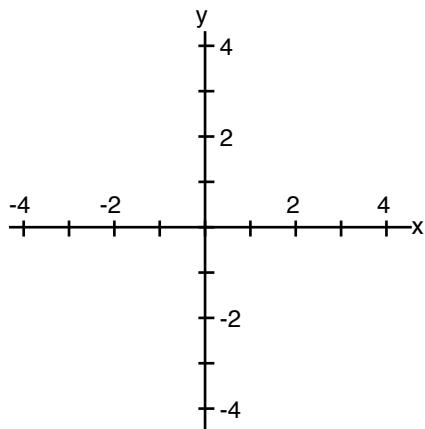
c)  $ab + c$   
=   
=

d)  $3c - a$   
=   
=

e)  $ab^2$   
=   
=

f)  $a^2 b$   
=   
=

2) Plot the points A(3, 1), B(-1, -2) and C(4, -1)



3) Simplify a) $7a + 4a =$	5) Simplify a) $y^4 \times y^5 =$
b) $11y - y =$	b) $a^7 \times a^2 =$
c) $2a + 3b + 5a + 4b$ =	c) $p^5 \times p =$
d) $11k + 8h + 2k$ =	d) $3y^2 \times 2y^3 =$
e) $2f + f + 3f + 6g$ =	e) $5k^3 \times 3k =$
f) $7p + 2q + p + q$ =	f) $6a^7 \times a^3 =$
g) $2m^2 + 3m + m^2 - m$ =	6) Expand a) $5(y - 2) =$
h) $8p + 5m - p + 2m$ =	b) $4(2a + 3) =$
i) $7xy + 5g + 2xy - g$ =	c) $7(y - 1) =$
	d) $8(y + 3a) =$
	e) $4(9 - 4g) =$
	f) $5(h + 12) =$
	7) Solve a) $a + 9 = 13$ $a =$
	b) $b - 5 = 8$ $b =$
4) Simplify a) $g \times g \times g =$	c) $6c = 18$ $c =$
b) $4 \times k \times k \times k \times k =$	d) $d \div 5 = 4$ $d =$
c) $c \times c \times a \times a \times 5 =$	e) $3e - 1 = 23$ $e =$
d) $y \times 7 \times y \times y \times 3 \times y =$	f) $5f + 3 = 53$ $f =$
e) $h \times h \times h \times h \times h \times h =$	g) $4g - 5 = 23$ $g =$
f) $p \times p \times 7 \times k \times k \times k \times p$ =	
g) $2 \times t \times t \times 4 \times t \times t \times 5 \times t$ =	

*Parent's signature and comment*