

Algebra and the Number Plane (1e) name

1) If $a = 4$, $b = 2$ and $c = 7$ find

a) $a + b + c$
=
=

b) $a^2 + 3$
=
=

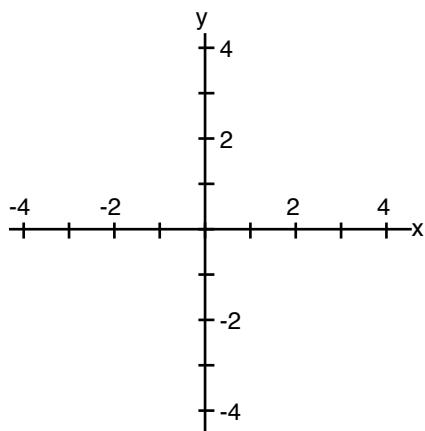
c) $ab + c$
=
=

d) $3c - b$
=
=

e) ab^2
=
=

f) $a^2 b$
=
=

2) Plot the points A(3, 3)
B(-2, 0) and C(4, -2)



3) Simplify a) $3a + 7a =$	5) Simplify a) $y^6 \times y^3 =$
b) $7y - y =$	b) $a^2 \times a^6 =$
c) $6a + 5b + 5a + 2b =$	c) $p^5 \times p =$
d) $3k + 8h + 6k =$	d) $6y^3 \times 7y^7 =$
e) $4f + f + 2f + 9g =$	e) $2k^4 \times 3k =$
f) $6p + 11q + p + q =$	f) $3a^5 \times a^4 =$
g) $7m^2 + 3m + m^2 - m =$	6) Expand a) $9(y - 4) =$
h) $5p + 4m - p + 2m =$	b) $6(8a + 1) =$
i) $7xy + 3g + 5xy - g =$	c) $5(y - 7) =$
	d) $4(y + 7a) =$
	e) $8(5 - 2g) =$
	f) $7(h + 4) =$
4) Simplify a) $g \times g \times g \times g \times g =$	7) Solve a) $a + 8 = 19$ $a =$
b) $9 \times k \times k \times k =$	b) $b - 8 = 5$ $b =$
c) $c \times c \times a \times a \times 8 =$	c) $6c = 42$ $c =$
d) $y \times 3 \times y \times y \times 5 \times y =$	d) $d \div 4 = 9$ $d =$
e) $h \times h \times h =$	e) $8e - 2 = 22$ $e =$
f) $p \times p \times 9 \times k \times k \times p =$	f) $6f + 1 = 25$ $f =$
g) $5 \times t \times t \times 5 \times t \times 2 \times t =$	g) $7g - 2 = 68$ $g =$

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