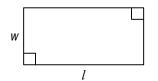
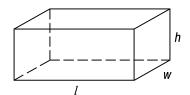
INFORMATION ABOUT ALGEBRA I

FORMULA SHEET

Formulas that you may need to solve questions on this exam are found below. You may use calculator π or the number 3.14 as an approximation of π .



$$A = lw$$



$$V = lwh$$

Linear Equations

Slope:
$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Point-Slope Formula:
$$(y - y_1) = m(x - x_1)$$

Slope-Intercept Formula:
$$y = mx + b$$

Standard Equation of a Line:
$$Ax + By = C$$

Arithmetic Properties

Additive Inverse:
$$a + (\bar{a}) = 0$$

Multiplicative Inverse:
$$a \cdot \frac{1}{a} = 1$$

Commutative Property:
$$a+b=b+a$$
 $a \cdot b = b \cdot a$

Associative Property:
$$(a+b)+c=a+(b+c)$$

 $(a \cdot b) \cdot c=a \cdot (b \cdot c)$

Identity Property:
$$a + 0 = a$$

 $a \cdot 1 = a$

Distributive Property:
$$a \cdot (b+c) = a \cdot b + a \cdot c$$

Multiplicative Property of Zero:
$$a \cdot 0 = 0$$

If
$$a = b$$
, then $a + c = b + c$

Multiplicative Property of Equality:

If
$$a = b$$
, then $a \cdot c = b \cdot c$