Review & Preview

CL 3-113. Two brothers, Martin and Horace are in their back yard. Horace is taking down a brick wall on one side of the yard while Martin is building a brick wall on the other side. Martin starts with zero bricks in his wall, but can lay 2 bricks every minute. Meanwhile, Horace's wall is made up of 200 bricks and he takes down 3 bricks each minute.

Write an equation in y = mx + b form for each brother.

CL 3-114. Rewrite each of these products as a sum.

a. $6x(2x + y - 5)$

b. $(2x^2 - 11)(x^2 + 4)$

c. $(7x)(2xy)$

d. $(x - 2)(3 + y)$

CL 3-115. Find the missing areas and dimensions for each generic rectangle below. Then write each area as a sum and as a product.

a.

$8x$	$16x^2$	
		1
	1	

b.

	$10y$	
		$-12x$
	$2y$	-3

CL 3-118. Simplify each expression.

a. $(x^3)^2$

b. $\frac{14a^3b^2}{21a^4b}$

c. $2m^3 \cdot 3m$

b.

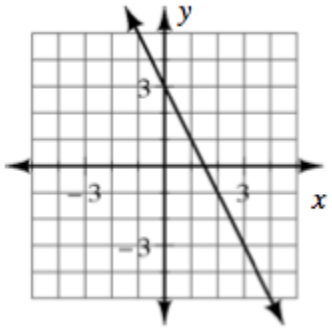
e. $(3x^2)^0$

c. $5xy^3 \cdot 3x^2y^5$

d. x^{-2}

CL 3-119. Determine the equation of each line from the given representation.

a.



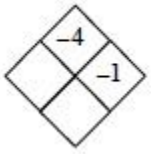
b. A line with a slope $-\frac{2}{3}$ and passes through the point $(-3, 4)$.

c.

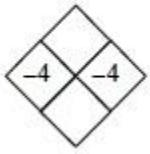
x	−4	−3	−2	−1
y	−11	−9	−7	−5

3-85. Complete each of the Diamond Problems below. The pattern used in the Diamond Problems is shown at right.

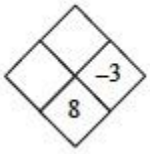
a.



b.



c.



d.