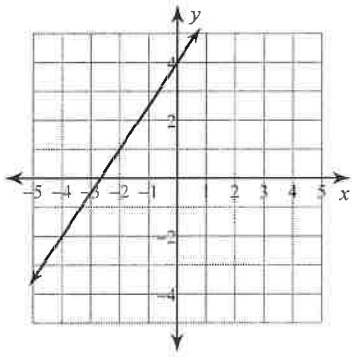
Core Algebra 2 Name_____ ID: 1

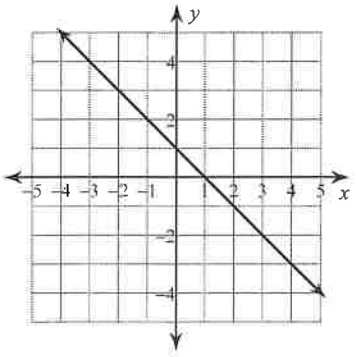
Worksheet 1.3C

Write the slope-intercept form of the equation of each line.

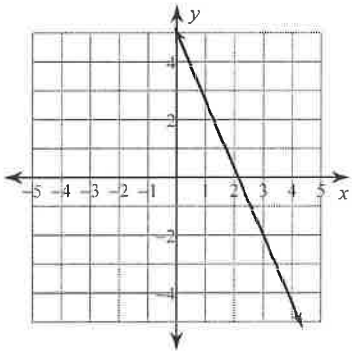
1)



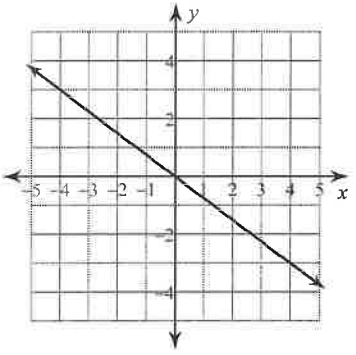
2)



3)



4)



Write the slope-intercept form of the equation of each line given the slope and y-intercept.

5) Slope = 6, y-intercept = 2

6) Slope = 8, y-intercept = –4

Write the slope-intercept form of the equation of the line through the given points.

7) through: $(5, 4)$ and $(4, -2)$

8) through: $(4, -4)$ and $(3, 4)$

9) through: $(2, -4)$ and $(1, 5)$

10) through: $(0, -2)$ and $(-1, -5)$

Solve each system by substitution.

11) $x - 4y = 14$
$-5x + 6y = -14$

12) $4x + y = -23$
$2x + 8y = -4$

13) $-3x - 3y = 15$
$y = -1$

14) $y = 2$
$-3x - 5y = -7$

15) $-8x - 6y = -22$
$-x + y = -1$

16) $x - 3y = 16$
$-6x + 3y = -6$

Solve each system by elimination.

17) $-9x - 5y = 30$
$18x - 4y = 24$

18) $2x + 3y = 18$
$-6x + y = 26$

19) $-8x + 9y = 17$
$x - y = -3$

20) $8x - 9y = 13$
$2x - 2y = 4$

21) $-x + y = 0$
$-4x - 5y = -9$

22) $-4x - 3y = -16$
$5x + 12y = -13$

23) $x - 9y = 26$
$-2x - 3y = 11$

24) $-x - 6y = -25$
$-3x - 3y = -30$

25) $6x + 4y = 20$
$-2x + 5y = 25$

26) $x + 3y = 6$
$8x + 12y = 24$

27) $18x - 5y = 22$
$-9x + y = -26$

28) $8x - 4y = -24$
$-7x - 12y = -10$