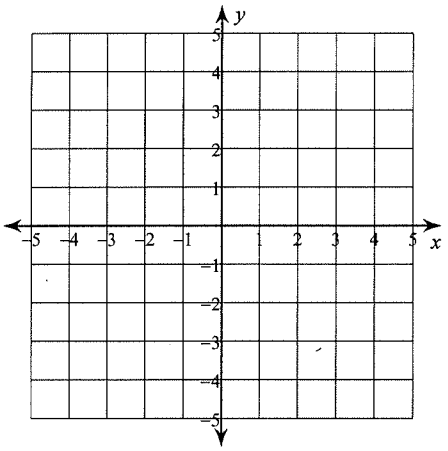
Algebra Foundations Name_____ ID: 1

# Quiz 7 Practice

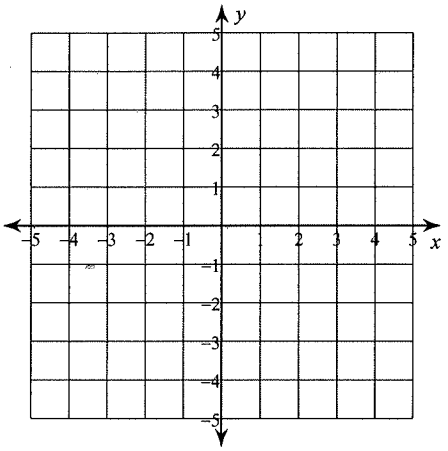
Date_____ Period____

**Solve each system by graphing. First get $y = mx + b$ !**

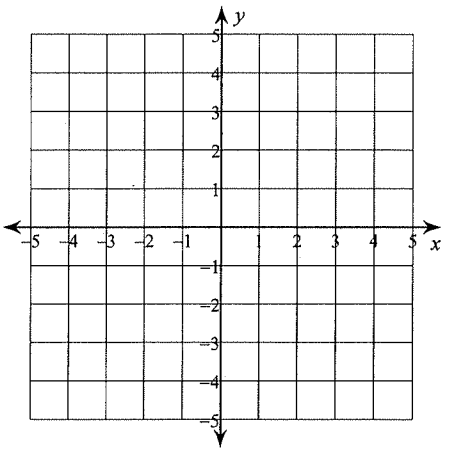
1) $y = -3x + 2$
$y = x - 2$



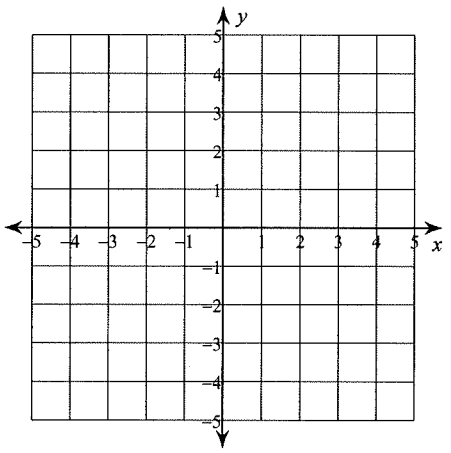

2) $5x - 4y = 16$
$x + 2y = 6$




3) $x = -8 - 4y$
$x + 8 + 4y = 0$




4) $0 = -6 + 3y + 6x$
$2x + y = -4$



**Solve each system by substitution.**

5) $y = x + 3$
$-4x - 2y = -18$

6) $8x + 2y = -18$
$y = -5x - 10$

**Write the point-slope form of the equation of the line through the given point with the given slope.**

**Remember:** $y - y_1 = m(x - x_1)$.

7) through: $(2, 1)$, slope $= -\frac{5}{2}$

8) through: $(1, -3)$, slope $= -6$

**Evaluate each using the values given.**

9) $-4 + p - q$; use $p = -5$, and $q = 3$

10) $(a + b)^2$; use $a = 2$, and $b = -6$

11) $p - (q + 1)$; use $p = -4$, and $q = 5$

12) $|q| - p$; use $p = -4$, and $q = -2$

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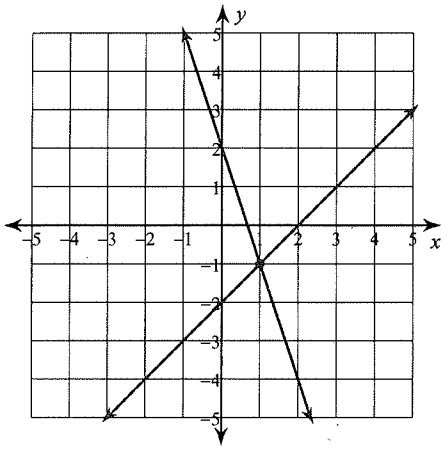
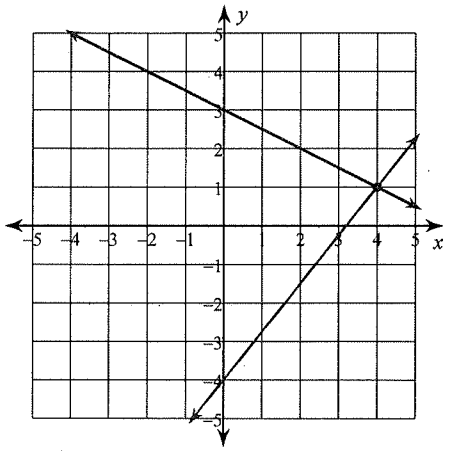
**Solve each system by graphing. First get $y = mx + b$ !**

1) $y = -3x + 2$
$y = x - 2$



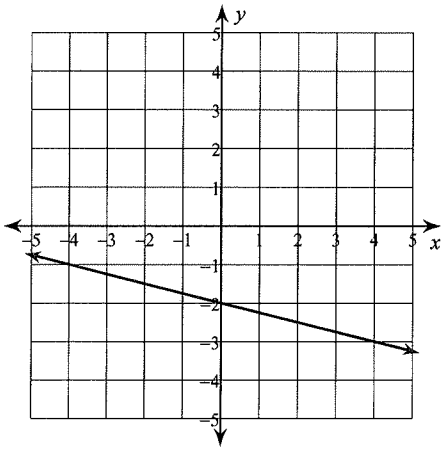
$(1, -1)$

2) $5x - 4y = 16$
$x + 2y = 6$



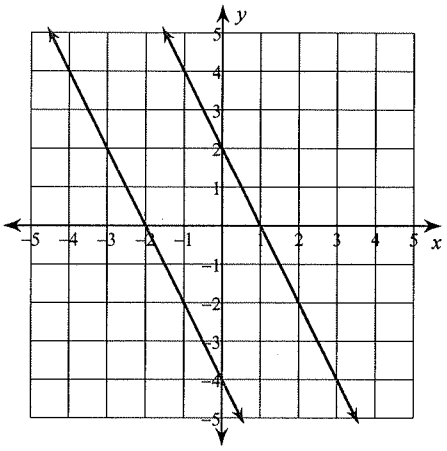
$(4, 1)$

3) $x = -8 - 4y$
$x + 8 + 4y = 0$



Infinite number of solutions

4) $0 = -6 + 3y + 6x$
$2x + y = -4$



No solution

**Solve each system by substitution.**

5) $y = x + 3$
$-4x - 2y = -18$

$(2, 5)$

6) $8x + 2y = -18$
$y = -5x - 10$

$(-1, -5)$

**Write the point-slope form of the equation of the line through the given point with the given slope.**

**Remember:** $y - y_1 = m(x - x_1)$.

7) through: $(2, 1)$, slope $= -\frac{5}{2}$

$y - 1 = -\frac{5}{2}(x - 2)$

8) through: $(1, -3)$, slope $= -6$

$y + 3 = -6(x - 1)$

**Evaluate each using the values given.**

9) $-4 + p - q$; use $p = -5$, and $q = 3$

$-12$

10) $(a + b)^2$; use $a = 2$, and $b = -6$

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11) $p - (q + 1)$; use $p = -4$, and $q = 5$

$-10$

12) $|q| - p$; use $p = -4$, and $q = -2$

6