System of Equations Name_____ ID: 1

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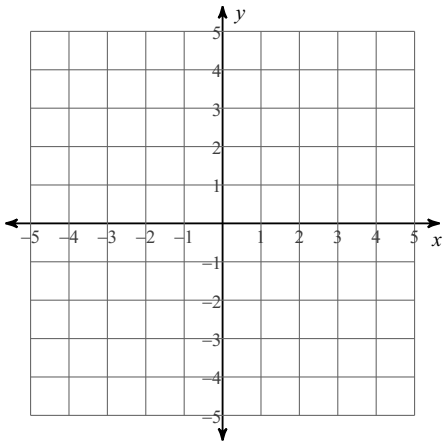
7A-7C Review

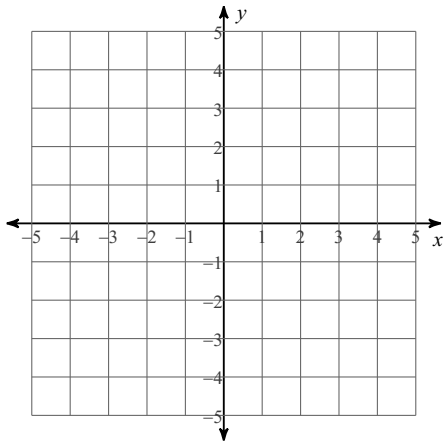
Date_____ Period____

Solve each system by graphing.

1) $4x - y = -1$
$0 = -x + y + 2$



2) $2y - 2 = 3x$
$0 = x - 2 - 2y$



Solve each system by substitution.

3) $3x - y = 23$
$4x + 4y = 20$

4) $5x - 3y = -3$
$-4x - 5y = -5$

Solve each system by elimination.

5) $-6 + 6y = 9x$
$-7 = -4x - 7y$

6) $5y = 19 - 2x$
$-32 + 7x = -6y$

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7) $-1 - \frac{2}{3}x = \frac{1}{3}y$

$1 = -\frac{7}{33}y - \frac{1}{3}x$

8) $2x = 4 - \frac{22}{3}y$

$8x = -3y + 16$

9) Michael breeds chickens and ducks. Last month, he sold 50 chickens and 30 ducks for $550. This month, he sold 44 chickens and 36 ducks for $532. How much does a chicken cost, and how much does a duck cost?

10) A stone falls from the top of a cliff into the ocean. In the air, it had an average speed of 16 m/s. In the water, it had an average speed of 3 m/s before hitting the seabed. The total distance from the top of the cliff to the seabed is 127 meters, and the stone's entire fall took 12 seconds. How long did the stone fall in the air and how long did it fall in the water?

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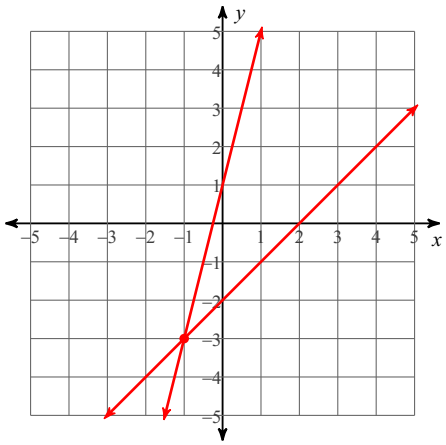
7A-7C Review

Date_____ Period____

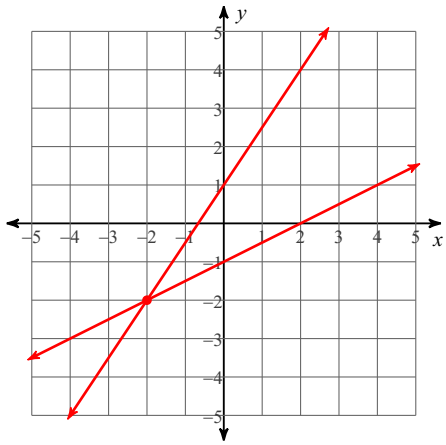
Solve each system by graphing.

1) $4x - y = -1$
$0 = -x + y + 2$



$(-1, -3)$

2) $2y - 2 = 3x$
$0 = x - 2 - 2y$



$(-2, -2)$

Solve each system by substitution.

3) $3x - y = 23$
$4x + 4y = 20$

$(7, -2)$

4) $5x - 3y = -3$
$-4x - 5y = -5$

$(0, 1)$

Solve each system by elimination.

5) $-6 + 6y = 9x$
$-7 = -4x - 7y$

$(0, 1)$

6) $5y = 19 - 2x$
$-32 + 7x = -6y$

$(2, 3)$

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7) $-1 - \frac{2}{3}x = \frac{1}{3}y$

$1 = -\frac{7}{33}y - \frac{1}{3}x$

$(4, -11)$

8) $2x = 4 - \frac{22}{3}y$

$8x = -3y + 16$

$(2, 0)$

9) Michael breeds chickens and ducks. Last month, he sold 50 chickens and 30 ducks for $550. This month, he sold 44 chickens and 36 ducks for $532. How much does a chicken cost, and how much does a duck cost?

8 chickens, 5 ducks

10) A stone falls from the top of a cliff into the ocean. In the air, it had an average speed of 16 m/s. In the water, it had an average speed of 3 m/s before hitting the seabed. The total distance from the top of the cliff to the seabed is 127 meters, and the stone's entire fall took 12 seconds. How long did the stone fall in the air and how long did it fall in the water?

7 seconds in air, 5 seconds in water

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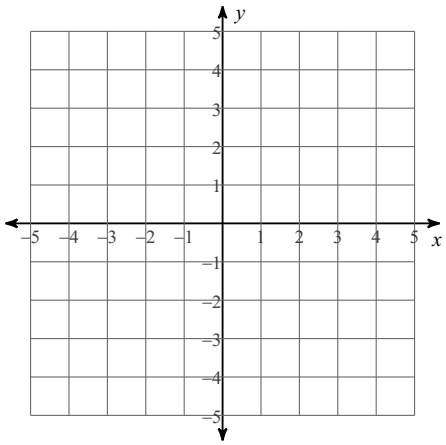
7A-7C Review

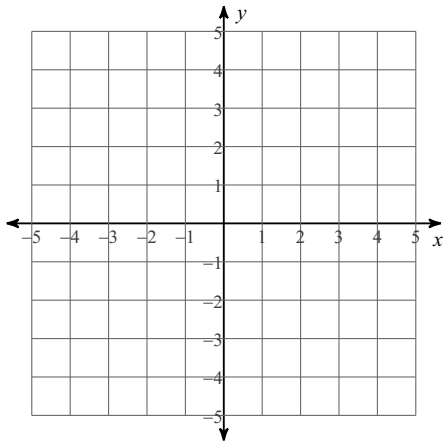
Date_____ Period____

Solve each system by graphing.

1) $0 = 8x - 3y + 12$
$6 - 2x = -3y$



2) $-2y + 6 = 7x$
$0 = 2y + 8$



Solve each system by substitution.

3) $-6x - 2y = -16$
$-2x + 4y = 18$

4) $2x + 7y = -5$
$-2x + 8y = -10$

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Solve each system by elimination.

5) $9x = 8 + 4y$
$11x = 10y - 26$

6) $2 = y - x$
$32 = 16y + 4x$

7) $-20 + 5y = -9x$
$0 = 22y + 10x + 60$

8) $-8y = -7x - 6$
$9y = 9x$

9) Michael breeds chickens and ducks. Last month, he sold 50 chickens and 30 ducks for $550. This month, he sold 44 chickens and 36 ducks for $532. How much does a chicken cost, and how much does a duck cost?

10) A stone falls from the top of a cliff into the ocean. In the air, it had an average speed of 16 m/s. In the water, it had an average speed of 3 m/s before hitting the seabed. The total distance from the top of the cliff to the seabed is 127 meters, and the stone's entire fall took 12 seconds. How long did the stone fall in the air and how long did it fall in the water?

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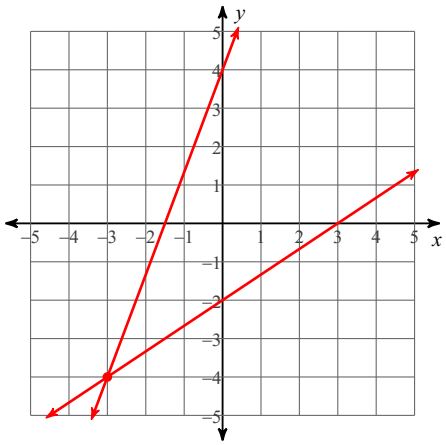
7A-7C Review

Date_____ Period____

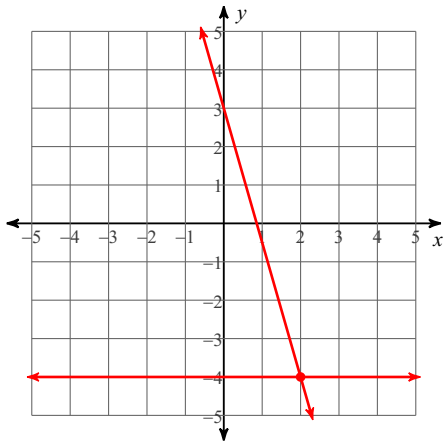
Solve each system by graphing.

1) $0 = 8x - 3y + 12$
$6 - 2x = -3y$



$(-3, -4)$

2) $-2y + 6 = 7x$
$0 = 2y + 8$



$(2, -4)$

Solve each system by substitution.

3) $-6x - 2y = -16$
$-2x + 4y = 18$

$(1, 5)$

4) $2x + 7y = -5$
$-2x + 8y = -10$

$(1, -1)$

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Solve each system by elimination.

5) $9x = 8 + 4y$
$11x = 10y - 26$

$(4, 7)$

6) $2 = y - x$
$32 = 16y + 4x$

$(0, 2)$

7) $-20 + 5y = -9x$
$0 = 22y + 10x + 60$

$(5, -5)$

8) $-8y = -7x - 6$
$9y = 9x$

$(6, 6)$

9) Michael breeds chickens and ducks. Last month, he sold 50 chickens and 30 ducks for $550. This month, he sold 44 chickens and 36 ducks for $532. How much does a chicken cost, and how much does a duck cost?

8 chickens, 5 ducks

10) A stone falls from the top of a cliff into the ocean. In the air, it had an average speed of 16 m/s. In the water, it had an average speed of 3 m/s before hitting the seabed. The total distance from the top of the cliff to the seabed is 127 meters, and the stone's entire fall took 12 seconds. How long did the stone fall in the air and how long did it fall in the water?

7 seconds in air, 5 seconds in water

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