

11.4 continued

Date _____ Period _____

Warm up (1-6): Solve each system by elimination.

1) $-10x - 6y = 20$
 $5x + 6y = 5$

2) $10x + 6y = 6$
 $10x + 3y = -12$

3) $-12x - 6y = 30$
 $-6x - y = 1$

4) $6x - 4y = -6$
 $-12x + 8y = 12$

5) $-8x - 6y = -26$
 $4x + 2y = 22$

6) $9x - 4y = -18$
 $2x + 2y = -30$

**11.4 Lesson: Multiply both equations
Solve each system by elimination.**

7) $-9x + 10y = -8$
 $5x - 3y = -16$

8) $-10x + 3y = -25$
 $-3x + 5y = 13$

9) $2x + 6y = 28$
 $-5x + 5y = -30$

10) $8x + 5y = 21$
 $-5x - 9y = 28$

11) $-3x - 3y = 12$
 $7x + 7y = -21$

12) $4x + 4y = 28$
 $-7x + 5y = 23$

13) $-10x - 7y = -25$
 $-6x - 6y = -6$

14) $10x + 30y = 20$
 $8x + 24y = 16$

15) $-7x + 6y = 23$
 $10x - 4y = -10$

16) $-6x + 5y = 15$
 $-9x + 6y = 9$

17) $7x + 3y = 19$
 $2x + 8y = -16$

18) $8x - 7y = 2$
 $-10x + 2y = -16$

Answers to 11.4 continued (ID: 1)

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|----------------------------------|---------------|---------------|---------------|
| 1) $(-5, 5)$ | 2) $(-3, 6)$ | 3) $(1, -7)$ | |
| 4) Infinite number of solutions | 5) $(10, -9)$ | 6) $(-6, -9)$ | |
| 7) $(-8, -8)$ | 8) $(4, 5)$ | 9) $(8, 2)$ | 10) $(7, -7)$ |
| 11) No solution | 12) $(1, 6)$ | 13) $(6, -5)$ | |
| 14) Infinite number of solutions | 15) $(1, 5)$ | 16) $(5, 9)$ | |
| 17) $(4, -3)$ | 18) $(2, 2)$ | | |