

**Chapter 7 Review Worksheet: Practice for Test 7 Part B****Alg 1****Graph and check to solve the linear system.**

1.  $-x + 5y = -11$   
 $3x + 2y = -18$



2.  $2.4x + 0.8y = 0.8$   
 $-0.5x + 0.25y = -1$

**Use the substitution method to solve the linear system.**

3.  $-10x + y = 40$   
 $-5x + 3y = -5$

4.  $3x + 5y = -3$   
 $-3x + y = -15$

5. You exercise on a treadmill for 1.5 hours. You walked quickly at 4 miles per hour, then you jogged at 6 miles per hour. If the treadmill monitor says that you travelled 7 miles, how long did you run at each speed?

**Solve the linear system using elimination.**

**6.**  $4x + 5y = -2$   
 $5x = 5 - 10y$

**7.**  $3y = 16 - 2x$   
 $3x + 2y = 14$

- 8.** You call two car rental companies to find out their rental prices. Company A charges \$75 plus \$.30 per mile and Company B charges \$80 plus \$.25 per mile. If you are traveling 150 miles, which company gives you the better deal?

**Solve the system using the method of your choice and tell how many solutions the system has.**

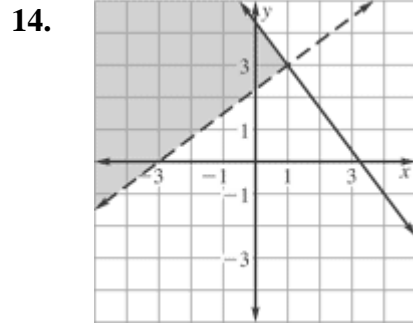
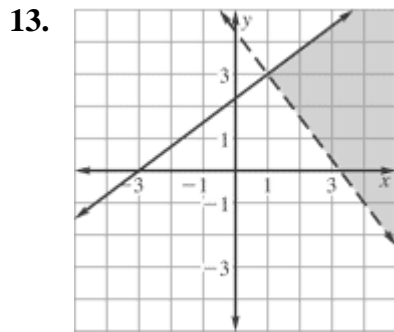
**9.**  $7x + 3y = -9$   
 $3y = x + 15$

**10.**  $6x - 18y = -27$   
 $6y = 2x + 9$

**11.**  $9x + y = 5$   
 $-4x + 3y = -16$

**12.**  $5y = -6x + 15$   
 $12x + 10y = -5$

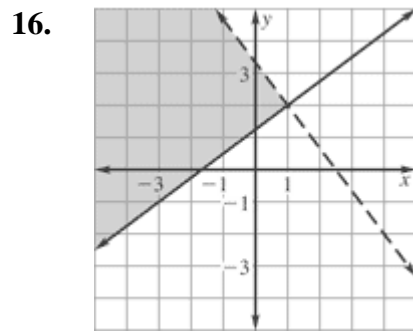
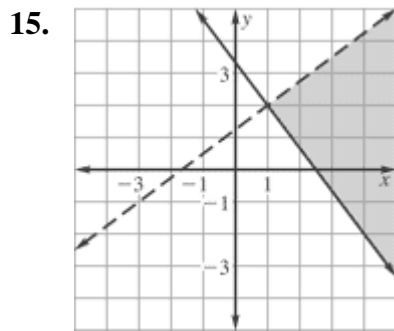
Match the system of linear inequalities with its graph.



A.  $4x + 3y \leq 13$   
 $-3x + 4y > 9$

B.  $-3x + 4y < 5$   
 $4x + 3y \geq 10$

C.  $-3x + 4y \leq 9$   
 $4x + 3y > 13$

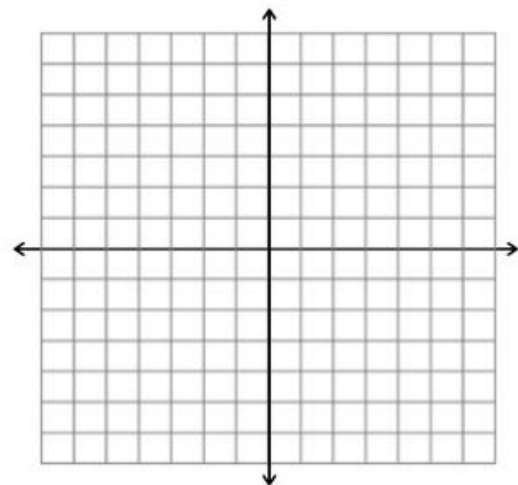
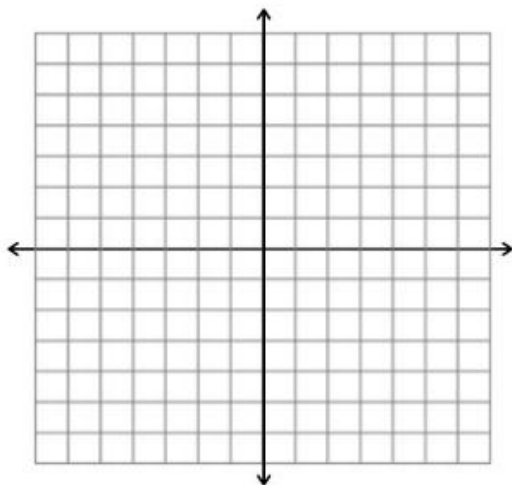


D.  $4x + 3y < 10$   
 $-3x + 4y \geq 5$

Graph the system of linear inequalities.

17.  $y \leq \frac{1}{2}x + \frac{5}{2}$   
 $y > -2x - 3$

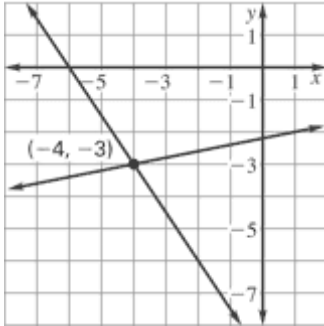
18.  $y > \frac{3}{4}x + \frac{5}{4}$   
 $y \leq -3x + \frac{5}{2}$



**RevWS 7**  
**Answer Section**

1. ANS:

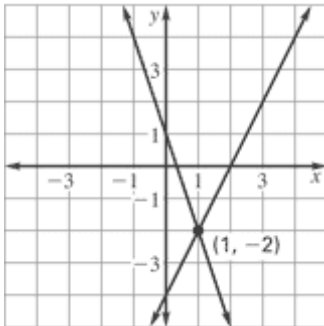
Answer:



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 KEY: Pre-made Test                    MSC: Knowledge                    NOT: 978-0-547-31539-3

2. ANS:

Answer:



PTS: 1                    DIF: Level C                    REF: A1.07.TestC.Eng.02  
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3. ANS:

$(-5, -10)$

PTS: 1                    DIF: Level B                    REF: A1.07.TestC.Eng.03  
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4. ANS:

$(4, -3)$

PTS: 1                    DIF: Level B                    REF: A1.07.TestC.Eng.04  
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5. ANS:

walked quickly = 1 h; jogged = 0.5 h

PTS: 1                    DIF: Level C                    REF: A1.07.TestC.Eng.05  
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6. ANS:

$(-3, 2)$

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7.            ANS:  
(2,4)

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8.            ANS:  
Company B

PTS: 1            DIF: Level C            REF: A1.07.TestC.Eng.08  
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9.            ANS:  
(-3,4); one solution

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10.            ANS:  
infinite number of solutions

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11.            ANS:  
(1,-4); one solution

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12.            ANS:  
no solution

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13.            ANS:  
C

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14.            ANS:  
A

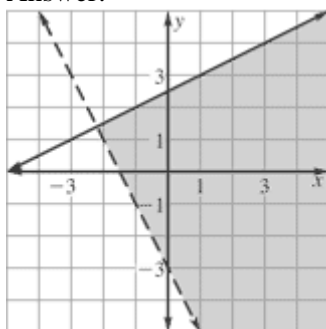
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15.            ANS:  
B

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16.            ANS:

D

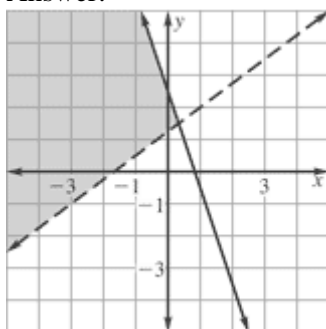
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17.            ANS:

Answer:



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18.            ANS:

Answer:



PTS: 1            DIF: Level C            REF: A1.07.TestC.Eng.18  
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