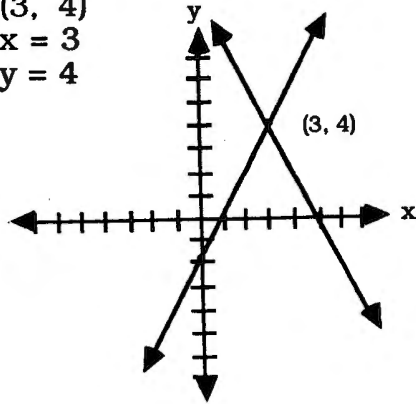
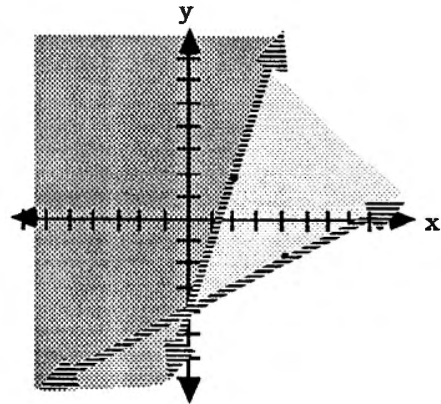


Lessons 12.1-12.2 Quiz Form A

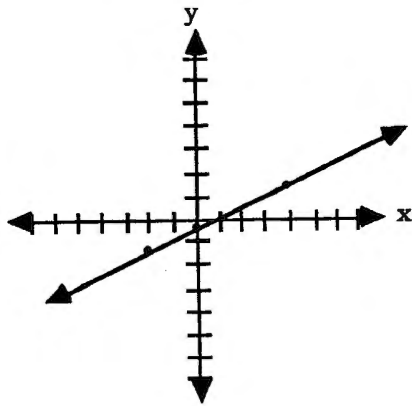
1.  $(3, 4)$   
 $x = 3$   
 $y = 4$



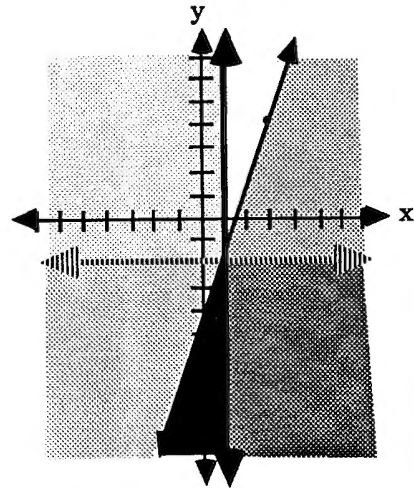
4.



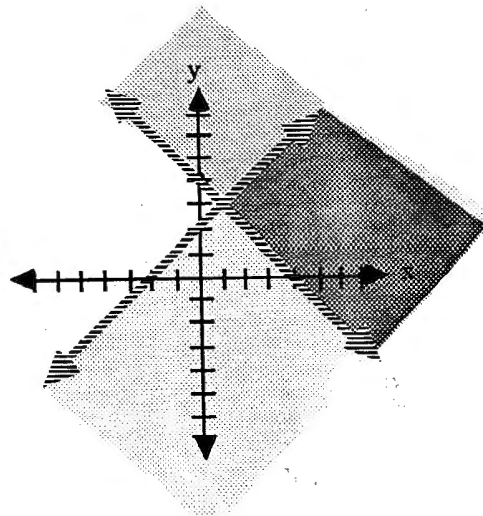
2. Dependent and consistent



5.

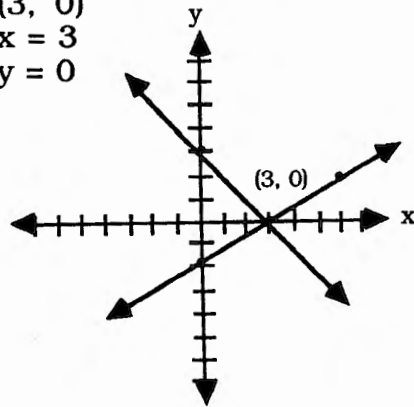


3.

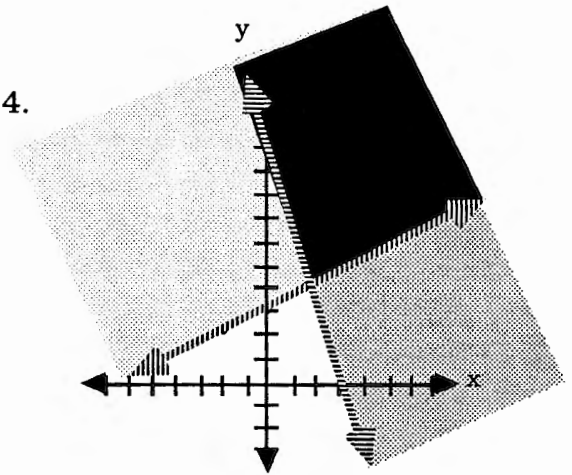


Lessons 12.1-12.2 Quiz Form B

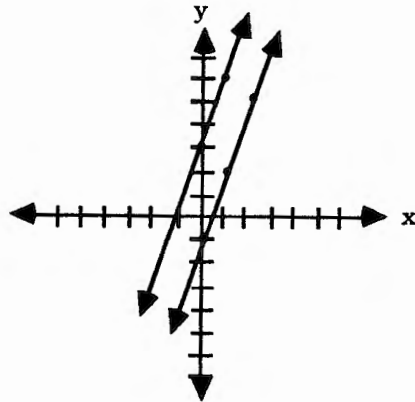
1.  $(3, 0)$   
 $x = 3$   
 $y = 0$



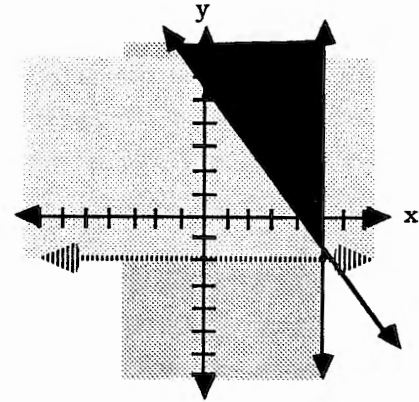
4.



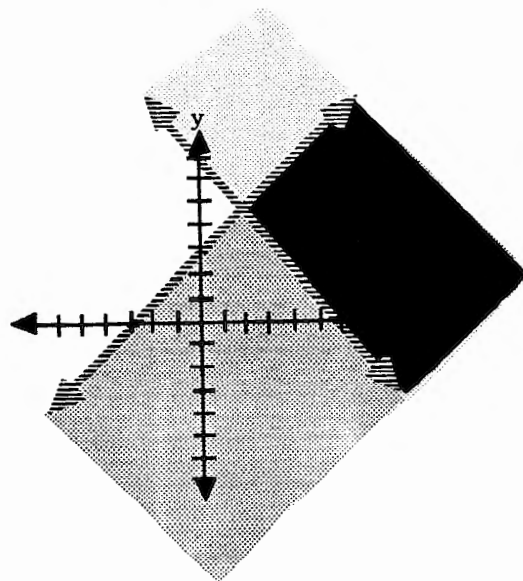
2. Inconsistent



5.



3.



Lessons 12.3-12.4 Quiz Form A

1.  $x = 2$   
 $y = 4$
2.  $x = 7$   
 $y = 1$
3. Steve = 4  
Mike = 16
4. first = 24  
second = 16
5. L = 7cm  
W = 5cm

Lessons 12.3-12.4 Quiz Form B

1.  $x = 5$   
 $y = 3$
2.  $x = 1$   
 $y = 4$
3. Sara = 13  
Ally = 7
4. first = 15  
second = 10
5. L = 11m  
W = 6m

Lessons 12.5-12.6 Quiz Form A

1.  $x = 4$   
 $y = 3$
2.  $x = 7$   
 $y = 9$
3.  $x = -3$   
 $y = 6$
4.  $x = 2$   
 $y = -5$
5.  $J - S = 3$                        $3J + 4S = 107$   
John = 17                              Sam = 14

Lessons 12.5-12.6 Quiz Form B

1.  $x = 1$   
 $y = 5$
2.  $x = 6$   
 $y = 5$
3.  $x = 2$   
 $y = -7$
4.  $x = 4$   
 $y = 4$
5.  $x + y = 16$                        $2x + 3y = 39$   
larger = 9                              smaller = 7

Lessons 12.7-12.8 Quiz Form A

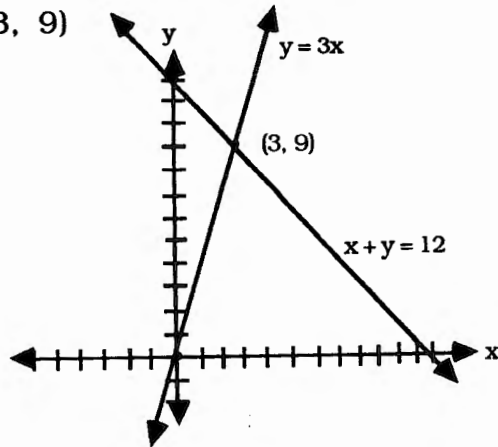
1.  $d = 2q$                        $10d + 25q = 180$   
 $q = 4$                                $d = 8$
2.  $n = 3d$                        $5n + 10d = 125$   
 $n = 15$                                $d = 5$
3.  $n = 2q - 11$                    $5n + 25q = 715$   
 $n = 33$                                $q = 22$
4.  $t + u = 9$                        $10u + t = (10t + u) + 9$   
45                       $t = 4$                        $u = 5$
5.  $2t + u = 12$                    $10u + t = (10t + u) + 54$   
28                       $t = 2$                        $u = 8$

Lessons 12.7-12.8 Quiz Form B

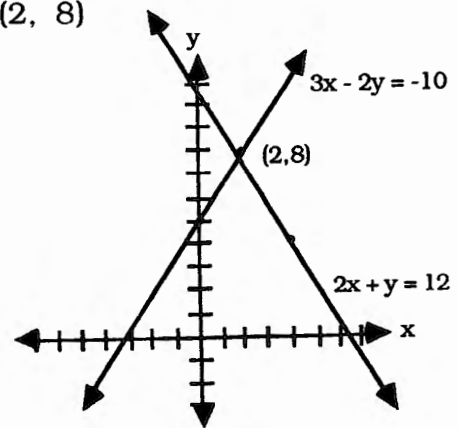
1.  $n = 4q$                        $5n + 25q = 225$   
 $q = 5$                                $n = 20$
2.  $n = d + 3$                        $5n + 10d = 75$   
 $n = 7$                                $d = 4$
3.  $2q = 3d - 2$                    $10d + 25q = 545$   
 $q = 17$                                $d = 12$
4.  $t + u = 10$                        $10u + 5 = (10t + u) - 36$   
73                       $t = 7$                        $u = 3$
5.  $2t + 4u = 16$                    $10u + t = (10t + u) - 45$   
61                       $t = 6$                        $u = 1$

Unit 12 Test Form A

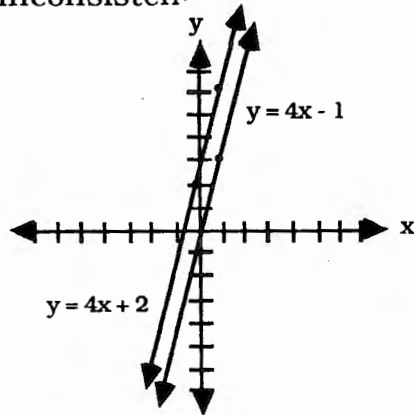
1. (3, 9)



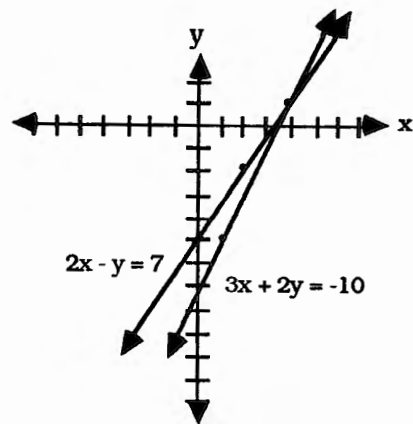
2. (2, 8)



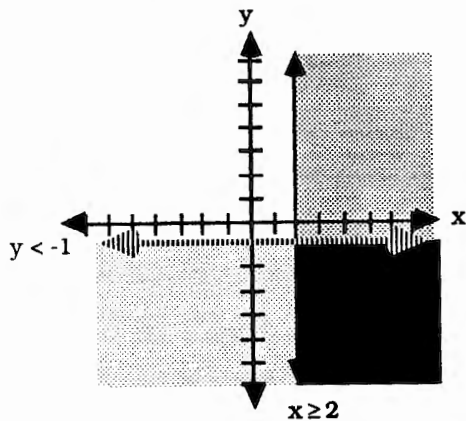
3. Inconsistent



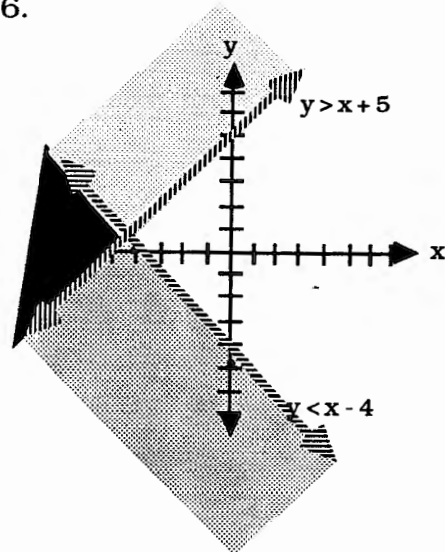
4. Independent and consistent



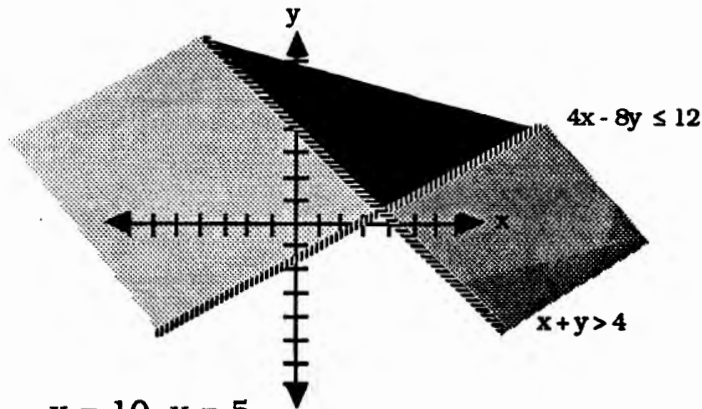
5.



6.



7.



8.  $x = 10, y = 5$

9.  $x = 2, y = 7$

10.  $x = 3, y = 4$

11.  $L = 2W - 2$        $2L + 2W = 32;$        $L = 10\text{m}, W = 6\text{m}$

12.  $G = S - 4$        $2S + G = 50$       Steve = 18, George = 14

13.  $r = 2t + 3$        $t + r = 33$       Tapes = 10, Records = 23

14.  $x = 3, y = 2$

15.  $x = 4, y = 4$

16.  $x = -1, y = -2$

17.  $x = 4, y = -3$

18.  $x = 5, y = 3$

19.  $x = 0, y = 17$

20.  $n = 3d$        $5n + 10d = 275$        $d = 11, n = 33$

21.  $q = n + 6$        $5n + 25q = 450$        $n = 10, q = 16$

22.  $n + d = 2d - 3$        $5n + 10d = 165$        $d = 12, n = 9$

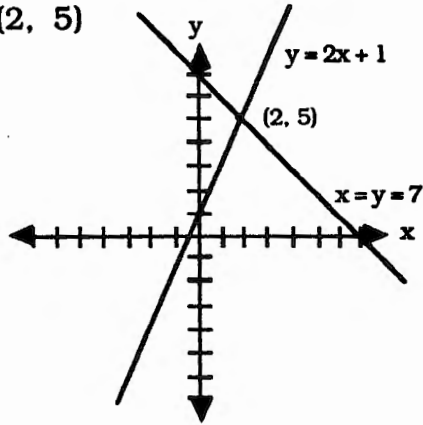
23.  $t + u = 8$        $10u + t = (10t + u) - 54$        $71, t = 7, u = 1$

24.  $u = 3t$        $10u + t = (10t + u) + 54$        $39, t = 3, u = 9$

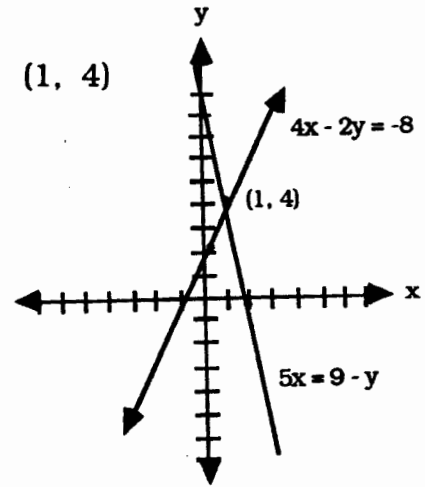
25.  $t = 7u + 1$        $10t + u = 4(10u + t) + 9$        $81, t = 8, u = 1$

Unit 12 Test Form B

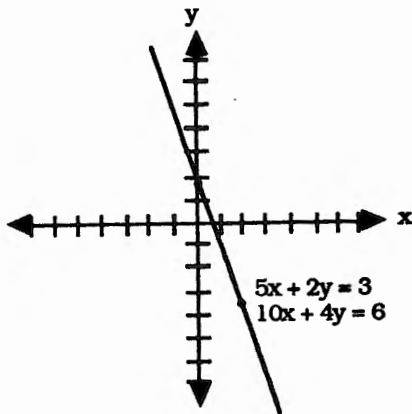
1. (2, 5)



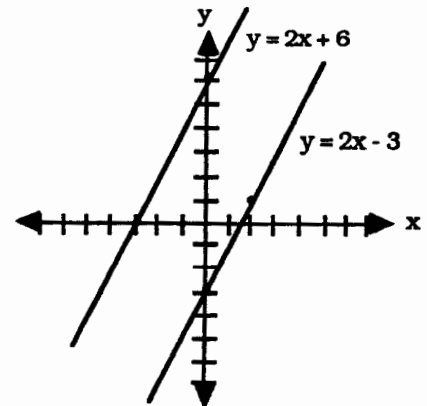
2. (1, 4)



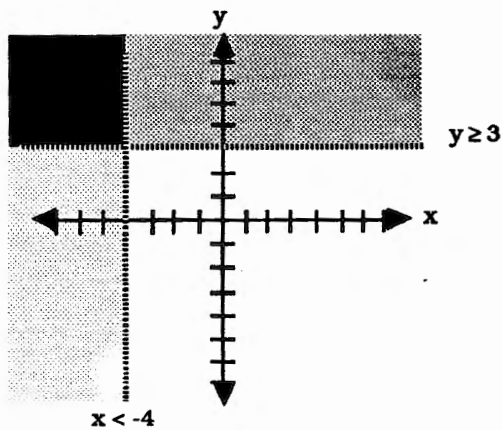
3. Dependent and consistent



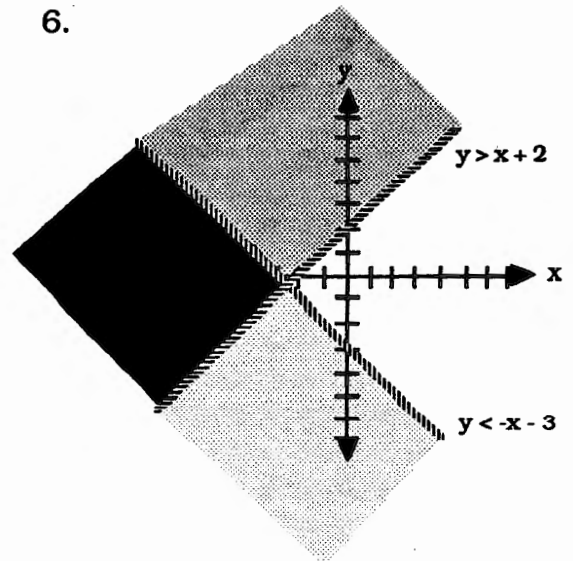
4. Inconsistent



5.

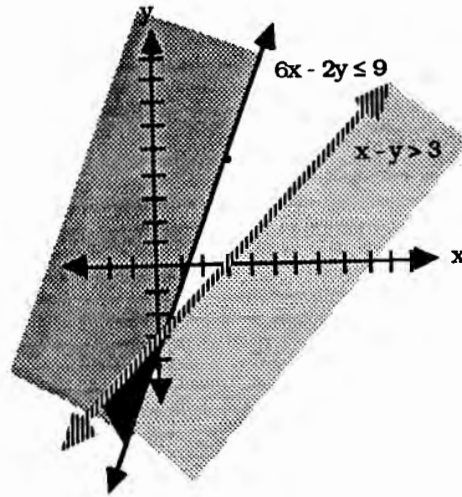


6.





7.



8.  $x = 4, y = 8$

9.  $x = 7, y = 3$

10.  $x = 5, y = 6$

11.  $L = 4W - 2$     $2L + 2W = 16$     $L = 6\text{cm}, W = 2\text{cm}$

12.  $E = n - 9$     $3n - 2e = 39$    Ellen = 12, Nancy = 21

13.  $x + y = 56$     $3x = 26 + 13$    first number = 25, second number = 31

14.  $x = 1, y = 5$

15.  $x = 2, y = 7$

16.  $x = -2, y = -5$

17.  $x = -3, y = 7$

18.  $x = 6, y = 1$

19.  $x = 15, y = 12$

20.  $q = 2d$     $25q + 10d = 240$     $d = 4, q = 8$

21.  $n = 3d + 2$     $5n + 1 - d = 160$     $d = 6, n = 20$

22.  $n + q = 2q + 4$     $5n + 25q = 230$     $n = 11, q = 7$

23.  $t + u = 8$     $10u + t = (10t + u) + 54$     $53, t = 5, u = 3$

24.  $u = 3t$     $10u + t = (10t + u) + 54$     $39, t = 3, u = 9$

25.  $t = 7u + 1$     $10t + u = 4(10u + t) + 9$     $81, t = 8, u = 1$



Lessons 13.1-13.2 Quiz Form A

1.  $\frac{17}{99}$
2.  $\frac{10705}{333}$
3. Rational
4. 67777
5. 8333351

Lessons 13.1-13.2 Quiz Form B

1.  $\frac{262}{99}$
2.  $\frac{4141}{333}$
3. Rational
4. 77774
5. 5100002

Lessons 13.3 through 13.5 Quiz Form A

1. 6
2. 7.938
3.  $\sqrt{35}$
4.  $9\sqrt{11}$
5. 42
6.  $6x^6y^7$
7.  $9a^3b^5c^2$
8.  $-5x^{16}y^{12}\sqrt{2}$
9.  $c^3d^5\sqrt{3cd}$
10.  $-14ab^2c^2\sqrt{2ac}$

Lessons 13.3 through 13.5 Quiz Form B

1. 10
2. 9.644
3.  $\sqrt{33}$
4.  $3\sqrt{5}$
5.  $35\sqrt{2}$
6.  $-2cd^{10}$
7.  $15m^4p^9s^8$
8.  $8x^{14}y^{11}z^{15}\sqrt{3}$
9.  $a^2b^2\sqrt{7a}$
10.  $6e^2f^8g^3\sqrt{11eg}$

Lessons 13.6-13.7 Quiz Form A

1.  $3\sqrt{7}$
2.  $15\sqrt{3}$
3.  $2d^2\sqrt{3}$
4.  $6\sqrt{10}$
5.  $30 - 12\sqrt{3}$
6.  $-4$
7.  $5\sqrt{2} - 90$

Lessons 13.6-13.7 Quiz Form B

1.  $\sqrt{5}$
2.  $13\sqrt{5}$
3.  $-11x^2y^2\sqrt{xy}$
4.  $105$
5.  $70 + 20\sqrt{7}$
6.  $8$
7.  $34 + 24\sqrt{3}$

Lessons 13.8-13.9 Quiz Form A

1.  $\sqrt{3}$
2.  $\frac{3\sqrt{11a}}{11a^2}$
3.  $\frac{8n^5\sqrt{5mn}}{5m}$
4. 17cm
5.  $c = 2\sqrt{2}$
6.  $b = 5$

Lessons 13.8-13.9 Quiz Form B

1.  $\frac{3\sqrt{5}}{5}$
2.  $\frac{3xy\sqrt{13}}{13}$
3.  $\frac{xy^4\sqrt{2x}}{2}$
4. 12m
5.  $c = 4$
6.  $b = 12$

---

Unit 13 Test Form A

1.  $-3 = \frac{-3}{1}$

2.  $.67 = \frac{67}{100}$

3.  $\frac{3}{5}$

4.  $\frac{119}{30}$

5. Rational

6. Irrational

7. 4.796

8. 8.888

9.  $\sqrt{91}$ 10.  $3\sqrt{5}$ 11.  $4xy^3$ 12.  $-15a^3b^4\sqrt{2ab}$ 13.  $-\sqrt{2ab}$ 14.  $\sqrt{6} + 12$ 15.  $8\sqrt{35} - 6$ 16.  $\frac{2\sqrt{6}}{3}$ 17.  $3\sqrt{3b}$ 18.  $\frac{9x^3y^4\sqrt{5}}{5}$ 19.  $3\sqrt{5}; 6.7$ 20.  $4\sqrt{17}; 16.5$ 

21. No

22.  $c = 3\sqrt{5}$ 23.  $b = 2$ 24.  $L = 24.0\text{m}$ 

25. 22.7cm

**Tests****Answers****Unit 13**

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Unit 13 Test Form B

- |                              |                        |
|------------------------------|------------------------|
| 1. $.5 = \frac{5}{10}$       | 20. $6\sqrt{19}; 26.2$ |
| 2. $2.91 = \frac{291}{100}$  | 21. Yes                |
| 3. $\frac{1}{3}$             | 22. $b = 4$            |
| 4. $\frac{82}{45}$           | 23. $a = 1$            |
| 5. Irrational                | 24. $L = 26.5$         |
| 6. Rational                  | 25. 17.0cm             |
| 7. 7.616                     |                        |
| 8. 6.403                     |                        |
| 9. 15                        |                        |
| 10. $7\sqrt{2}$              |                        |
| 11. $4x^2y^2\sqrt{2x}$       |                        |
| 12. $6a^6b^8\sqrt{7b}$       |                        |
| 13. $2\sqrt{2}$              |                        |
| 14. $\sqrt{42} + 21$         |                        |
| 15. $19 - 4\sqrt{22}$        |                        |
| 16. $\sqrt{2}$               |                        |
| 17. $\frac{4\sqrt{6c}}{3b}$  |                        |
| 18. $\frac{4\sqrt{11y}}{3y}$ |                        |
| 19. $5\sqrt{3}; 8.7$         |                        |



Lessons 14.1-14.2 Quiz Form A

1.  $x = 7$
2.  $x = 6$
3.  $\emptyset$
4.  $x = 1, -7$
5.  $x = 2 \pm 2\sqrt{6}$
6.  $x = 2 \pm \sqrt{2}$

Lessons 14.1-14.2 Quiz Form B

1.  $x = 6$
2.  $x = 4$
3.  $\emptyset$
4.  $x = 7, -9$
5.  $x = 3 \pm 4\sqrt{2}$
6.  $x = 3 \pm \sqrt{2}$

Lessons 14.3-14.4 Quiz Form A

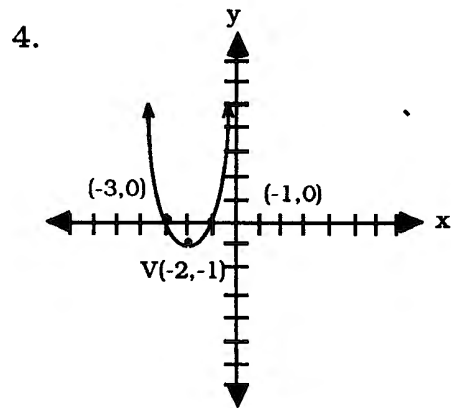
1.  $x = 2, -4$
2.  $x = \frac{5 \pm \sqrt{97}}{2}$
3.  $x = 3, -2$
4.  $x = 5, \frac{-1}{2}$
5.  $x = 2 \pm \sqrt{2}$

Lessons 14.3-14.4 Quiz Form B

1.  $x = 3, -5$
2.  $x = 3 \pm 2\sqrt{5}$
3.  $3x = 9, -2$
4.  $x = 1, \frac{-1}{3}$
5.  $x = \frac{1}{2}, -3$

Lessons 14.5-14.6 Quiz Form A

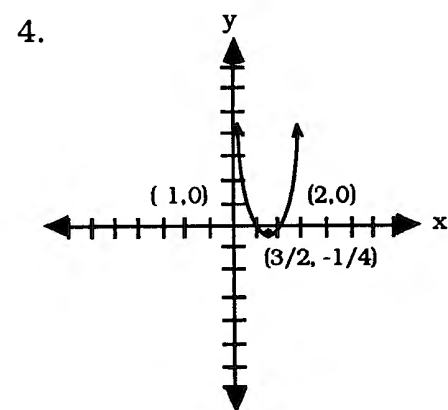
1.  $l = 5, w = 2$
2.  $b = 6m, h = 2m$
3.  $(3, -1)$



5.  $-16$

Lessons 14.5-14.6 Quiz Form B

1.  $l = 7, w = 3$
2.  $b = 5, h = 2$
3.  $(-3, -6)$



5.  $-9$

Unit 14 Test Form A

1.  $x = 5$

2.  $y = 13$

3.  $x = \pm 4$

4.  $z = -5, 7$

5.  $s = -3 \pm 3\sqrt{3}$

6.  $x = 5, -3$

7.  $p = -4 \pm 3\sqrt{2}$

8.  $t = -2 \pm 2\sqrt{3}$

9.  $x = 7, -2$

10.  $x = 4, -6$

11.  $x = \frac{-3 \pm \sqrt{29}}{2}$

12.  $x = \frac{1}{2}, -1$

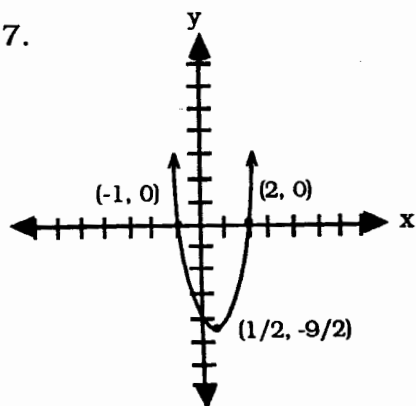
13.  $5, -9$

14.  $l = 9, w = 3$

15. Base = 5cm, height = 10cm

16.  $(-2, -25)$

17.



18.  $1$

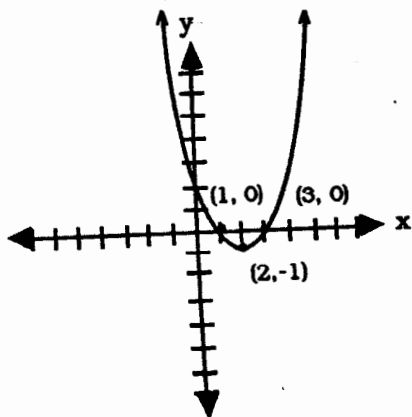
19.  $x = 0, 4$

20.  $y = \frac{2 \pm \sqrt{15}}{4}$

---

Unit 14 Test Form B

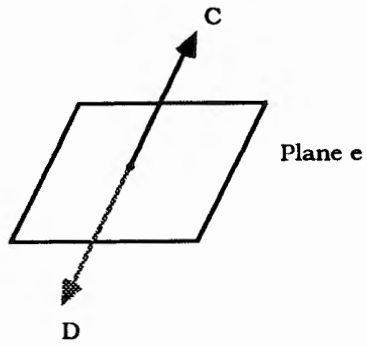
1.  $x = 3$
2.  $y = 7$
3.  $x = \pm 3$
4.  $x = 4, -10$
5.  $x = 1 \pm 2\sqrt{3}$
6.  $x = 1, -5$
7.  $x = -3 \pm 2\sqrt{3}$
8.  $x = -2 \pm \sqrt{6}$
9.  $x = 3, -5$
10.  $x = 6, 7$
11.  $x = 2 \pm \sqrt{5}$
12.  $x = \frac{1}{2}, -3$
13.  $11, -5$
14.  $l = 5, w = 3$
15.  $b = 12\text{cm}, h = 4\text{cm}$
16.  $(1, -36)$
- 17.
18.  $-5$
19.  $x = 11 \pm 4\sqrt{7}$
20.  $x = \frac{1 \pm 2\sqrt{3}}{3}$



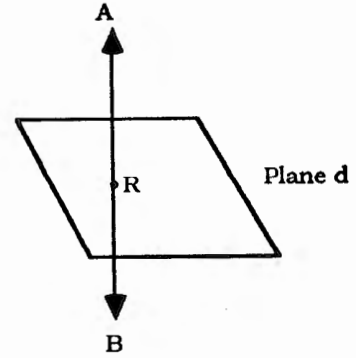


Lessons 15.1-15.2 Quiz Form A

1.



2.



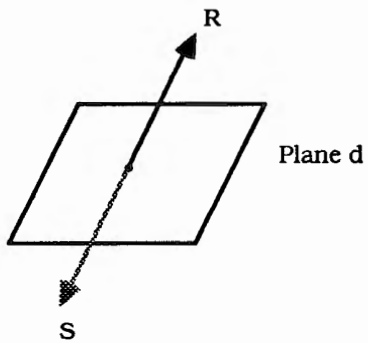
3. Not congruent

4. Congruent

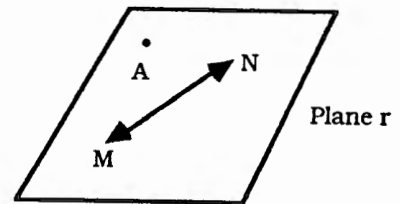
5. Not congruent

Lessons 15.1-15.2 Quiz Form B

1.



2.



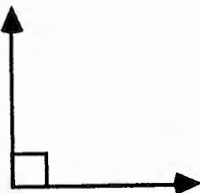
3. Congruent

4. Not congruent

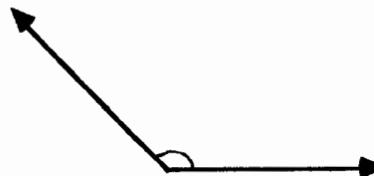
5. Congruent

Lessons 15.3-15.4 Quiz Form A

1.



2.



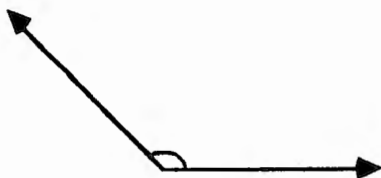
3.  $\angle DEF$ ,  $\angle FED$ ,  $\angle E$ ,  $\angle n$

4. Parallel

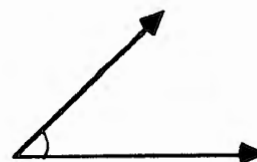
5. Skewed

Lessons 15.3-15.4 Quiz Form B

1.



2.



3.  $\angle LMN$ ,  $\angle NML$ ,  $\angle M$ ,  $\angle d$

4. Skewed

5. Parallel



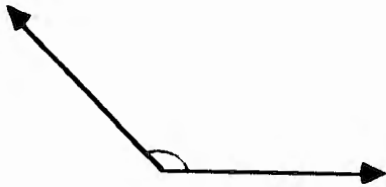
Lesson 15.5 and Review Quiz Form A

1. Isosceles triangle  
Acute triangle

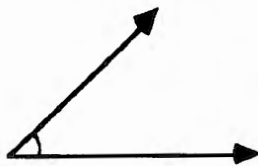
2. Isosceles triangle  
Right triangle

3. Scalene triangle  
Obtuse triangle

4.



5.



Lesson 15.5 and Review Quiz Form B

1. Isosceles triangle  
Right triangle

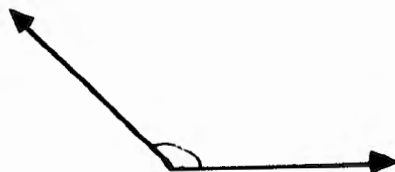
2. Isosceles triangle  
Obtuse triangle

3. Equilateral triangle  
Equiangular triangle

4.

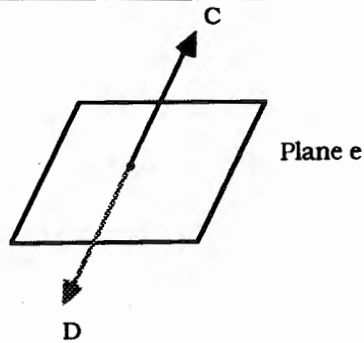


5.

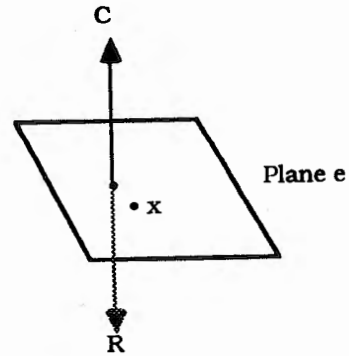


Unit 15 Test Form A

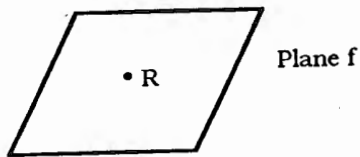
1.



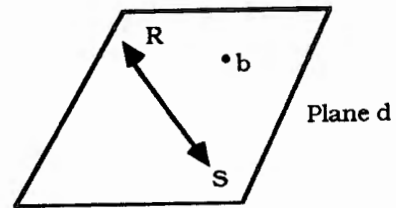
2.



3.



4.

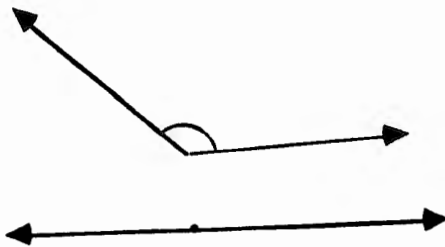


5. Congruent

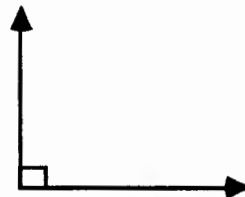
6. Congruent

7. Not congruent

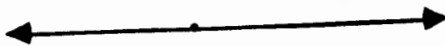
8.



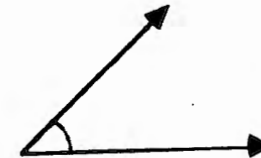
9.



10.



11.



12.-16.  $\angle ABC$ ,  $\angle CBA$ ,  $\angle B$ ,  $\angle n$

17.-20.  $\angle DEF$ ,  $\angle FED$ ,  $\angle E$ ,  $\angle d$

21. Parallel

22. Skewed

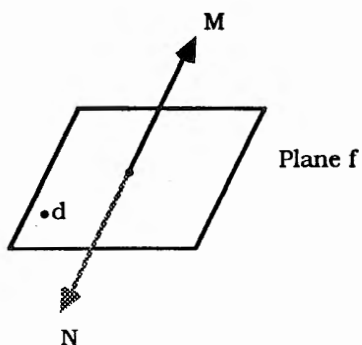
23. Isosceles triangle, equiangular triangle

24. Isosceles triangle, obtuse triangle

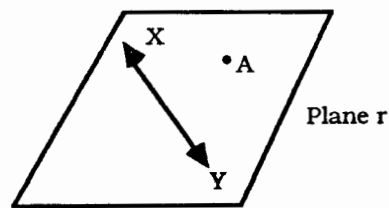
25. Equilateral triangle, right triangle

Unit 15 Test Form B

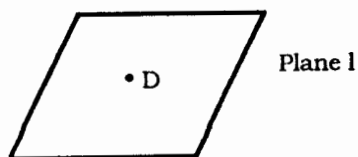
1.



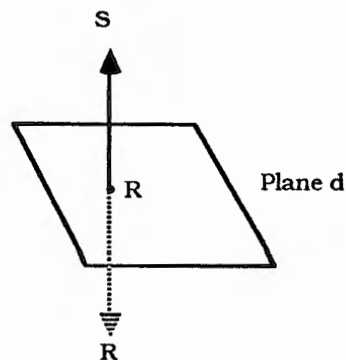
2.



3.



4.

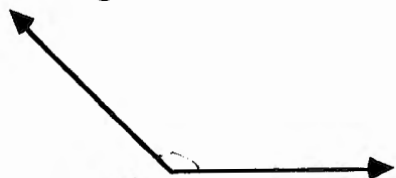


5. Not congruent

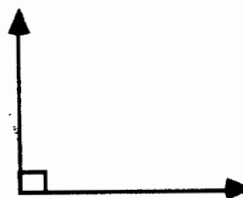
6. Congruent

7. Congruent

8.



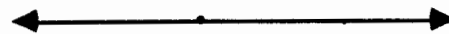
9.



10.



11.



12.-16.  $\angle ONM$ ,  $\angle MNO$ ,  $\angle N$ ,  $\angle b$

17.-20.  $\angle DEF$ ,  $\angle FED$ ,  $\angle E$ ,  $\angle a$

21. Parallel

22. Skewed

23. Scalene triangle, right triangle

24. Equilateral triangle, equiangular triangle

25. Isosceles triangle, obtuse triangle

