

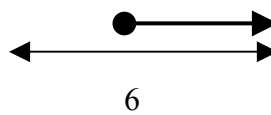
Answer Key (no work shown)

1. 1. 49
2. -25
3. 52
4. 5
5. -11
6. -12
7. 10 1/3
8. 29/15 or 1 14/15
9. 207/35 or 5 32/35
10. 3 1/2
11. 8
12. x^6
13. $5x^7y^6$
14. $27x^6y^3$
15. $3^22^3x^{11}y^7$
16. $2x^2$
17. x^2y^3
18. -x
19. $9x^2 + x$
20. $3x - 1$
21. $2x^2 + 2xy - y$
22. $6x + 10$
23. $-12x^2 - 18x$
24. $6x^2 + 10x - 4$
25. $9x^2 - 6x + 1$
26. $4x^2 + 2 - 3x$
27. $-1 + 2b - 3b^2$

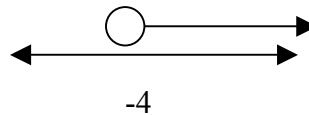
2. 1. a) $3x - 6$
- b) $(1/2)x + 12$
2. a) $x + 6 = 20$

- b) $x - 12 = 40$
- c) $3x = 24$
- d) $4x + 6 = 9$
3. a) 3
- b) 9
- c) 11
- d) -4/5
- e) 10
- f) 3.2
- g) -6.11
- h) 3.212
- i) 9/8 or 1.125
4. 1. 32
2. 5
3. 7
4. 13
5. 12, 20

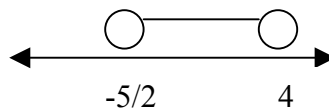
3. 1. $x \geq 6$



2. $x > -4$

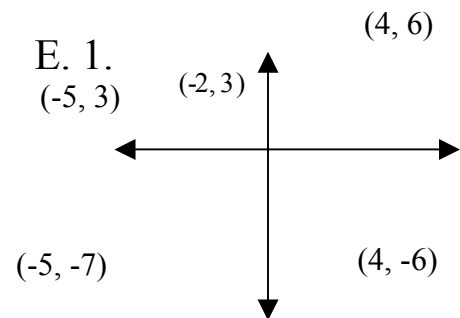


3. $-5/2 < x$ and $x < 4$



4. 1. $\frac{3V}{4\pi r^3} = h$

2. $\frac{l - a + d}{d} = n$



2. 3rd

3. a) r

b) f

c) r

d) f

e) r

4. 1. $d = \{2, 4, 7\}$

$r = \{3, -2, 8\}$

2. $d = \{-2, -1, 0, 1, 2\}$

$r = \{1, 2, 3, 4, 5\}$

3. $d = \{-2 \leq x \leq 3\}$

$r = \{-2 \leq x \leq 3\}$

4. $d = \{1, 2, 3, 4, 5\}$

$r = \{3\}$

5. 1. -4/6

2. -3/4

3. -2/3

4. -4/5

5. 4/5,

6. -3/5

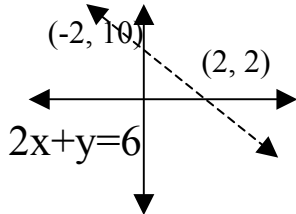
6. 0, \emptyset

6. (0,5)(6,0)

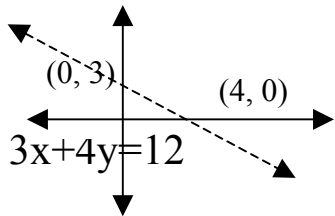
7. $m = 7/3, b = -4$

8. 1.

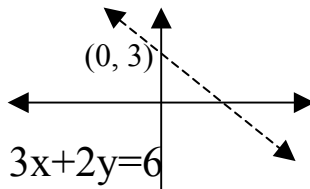
x	-2	-1	0	1	2
y	10	8	6	4	2



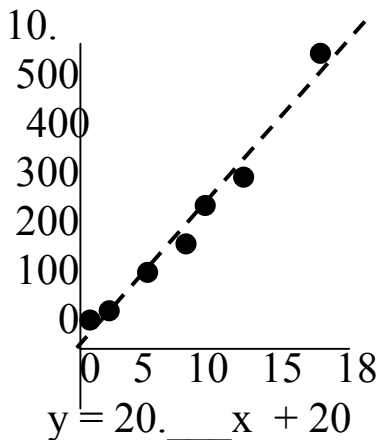
2. $(0, 3)(4, 0)$



3. $m = -3/2, b = 3$



9. 1. $-2x + y = 6$
 2. $3x + 4y = 16$
 3. $-3x + 4y = 8$
 4. $-9x + y = -23$
 5. $-5x + 4y = -25$



- F. 1. a) direct
 b) not
 c) not
 d) direct

2. $y = 6x, k = 2$

3. a) $48/7$

b) 15

c) 4

4. 3.3

5. a) partial

b) direct

c) partial

6. $y = .85x + 26$

G. 1. a) yes

b) no

2. 23, 29, 35

3. 21

4. -128

5. 83

6. \$41,098.85

7. 27, 36, 45

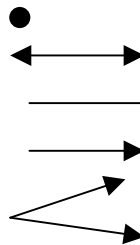
8. a) 810

b) 600

c) -315

9. 2340

H. 1.



2. many answers

a) AF \leftrightarrow

b) $\angle 1 \& \angle 5, \angle 2 \& \angle 6$

c) $\angle 1 \& \angle 2, \angle 1 \& \angle 4$

d) $\angle 1 \& \angle 2, \angle 1 \& \angle 4$

e) $\angle 3 \& \angle 5, \angle 4 \& \angle 6$

f) $\angle 1 \& \angle 7, \angle 2 \& \angle 8$

g) $\angle 4 \& \angle 5, \angle 3 \& \angle 6$

h) $\angle 1 \& \angle 3, \angle 5 \& \angle 7$

i) $\angle 2 \& \angle 4, \angle 6 \& \angle 8$

j) $\angle 1 \& \angle 3, \angle 2 \& \angle 4, \angle 5 \& \angle 7, \angle 6 \& \angle 8$

3. a) 80

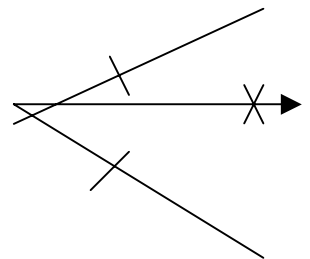
b) 16, 96

c) 23

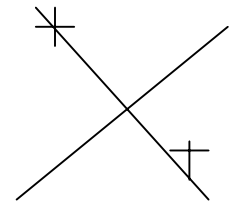
d) 20, 70

e) 30

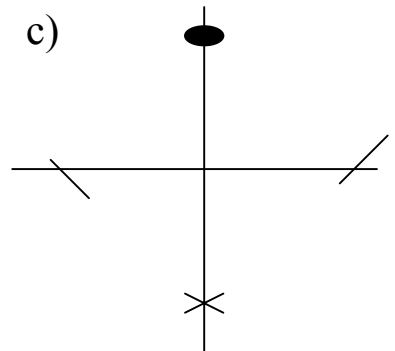
I. a)



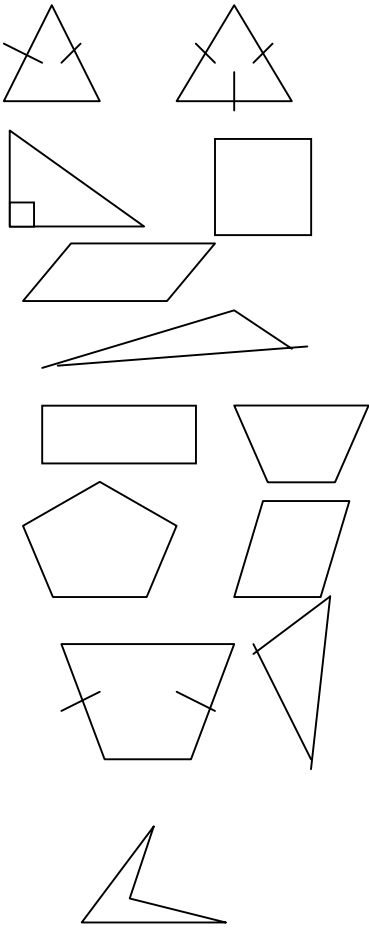
b)



c)



J.



3. 11.4

4. 1. 16, 36.8,
53.2

2. 14.7, 18.9,
52

3. 20.5, 12.9,
39

2. 1080, 1800,
3960

3. 14, 17, 25

4. 166.67,
168.38

5. 5, 14, 35

6. 60, 36, 25.57

7. 360

8. 45, 30, 18

9. a) 65

b) 40

K. a) 1. Yes

2. no

b) 1. 12.68

2. 13.22