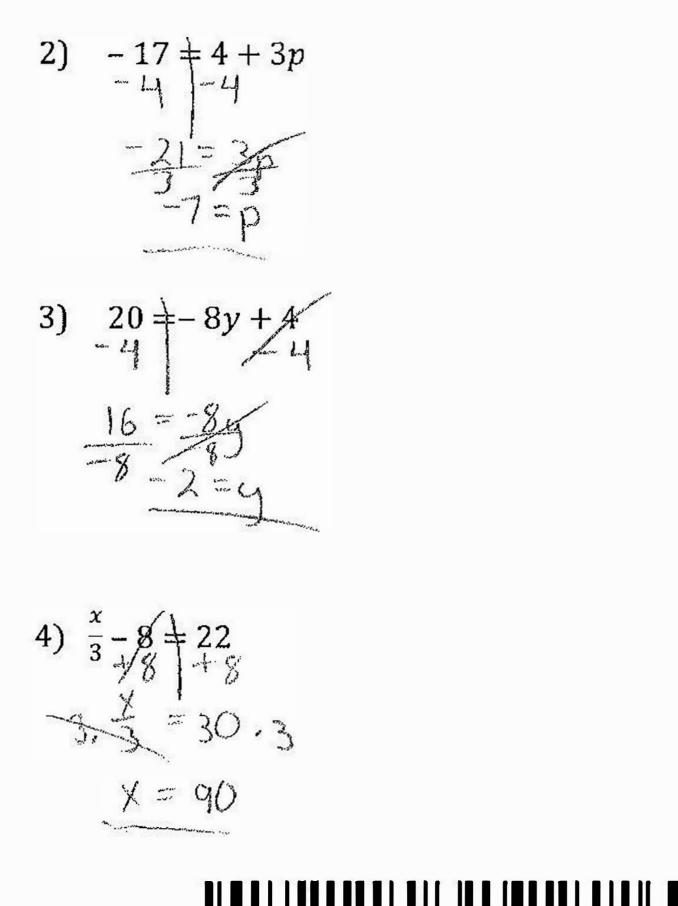
| Solving Variables on            | One Side Retake |                      |
|---------------------------------|-----------------|----------------------|
| StudentName 2013                |                 | · Page 1 of 2        |
| Teacher Name                    | · Charles       | Test Date: 9/6/2022  |
| Trm: S1 Crs: ALG 1 FALL Sec: 01 | 23              | Assessment No.: 8675 |

| 1.A I can solve an equation with variables on one side           | N       | 1        | (2)     | ٢      |
|--|---------|----------|---------|--------|
| 3 – Demonstrates learning target mastery                         |         |          |         |        |
| 2 – Is in progress of learning target mastery                    |         |          |         |        |
| 1 – Is not yet making progress or is making minimal progress tow | ard lea | rning ta | arget m | astery |
| N – No evidence of learning target mastery                       |         |          |         |        |
| Comments:  |         |          |         |        |
|  |         |          |         |        |
|  |         |          |         |        |

Solve each equation below for the given variable.

1) 
$$c - 8 = 32$$
  
 $78 = 48$   
 $c = 40$   
1 pt

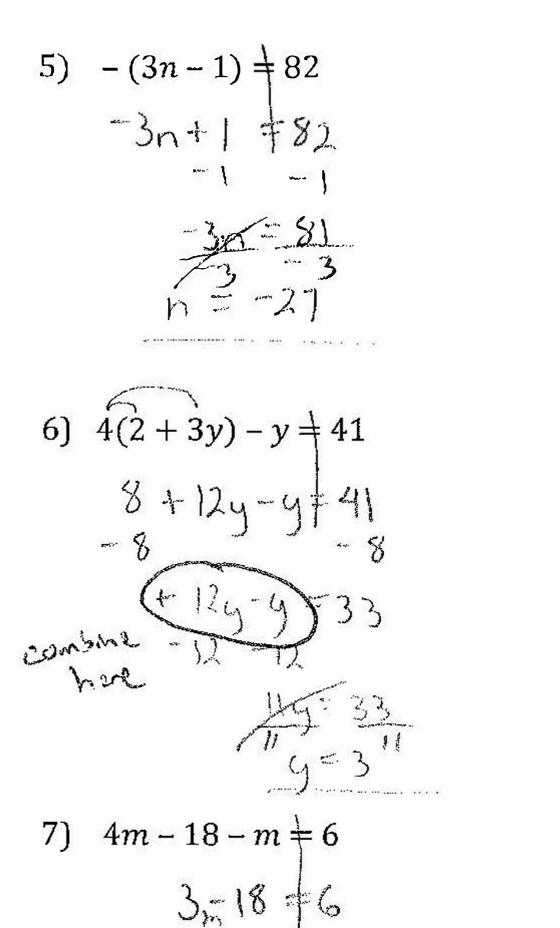


2 pts

2 pts



Solving Variables on One Side RetakePage 2 of 2Student NamePage 2 of 2Teacher NameTest Date: 9/6/2022Trm: S1 Crs: ALG 1 FALL Sec: 01Assessment No.: 8675



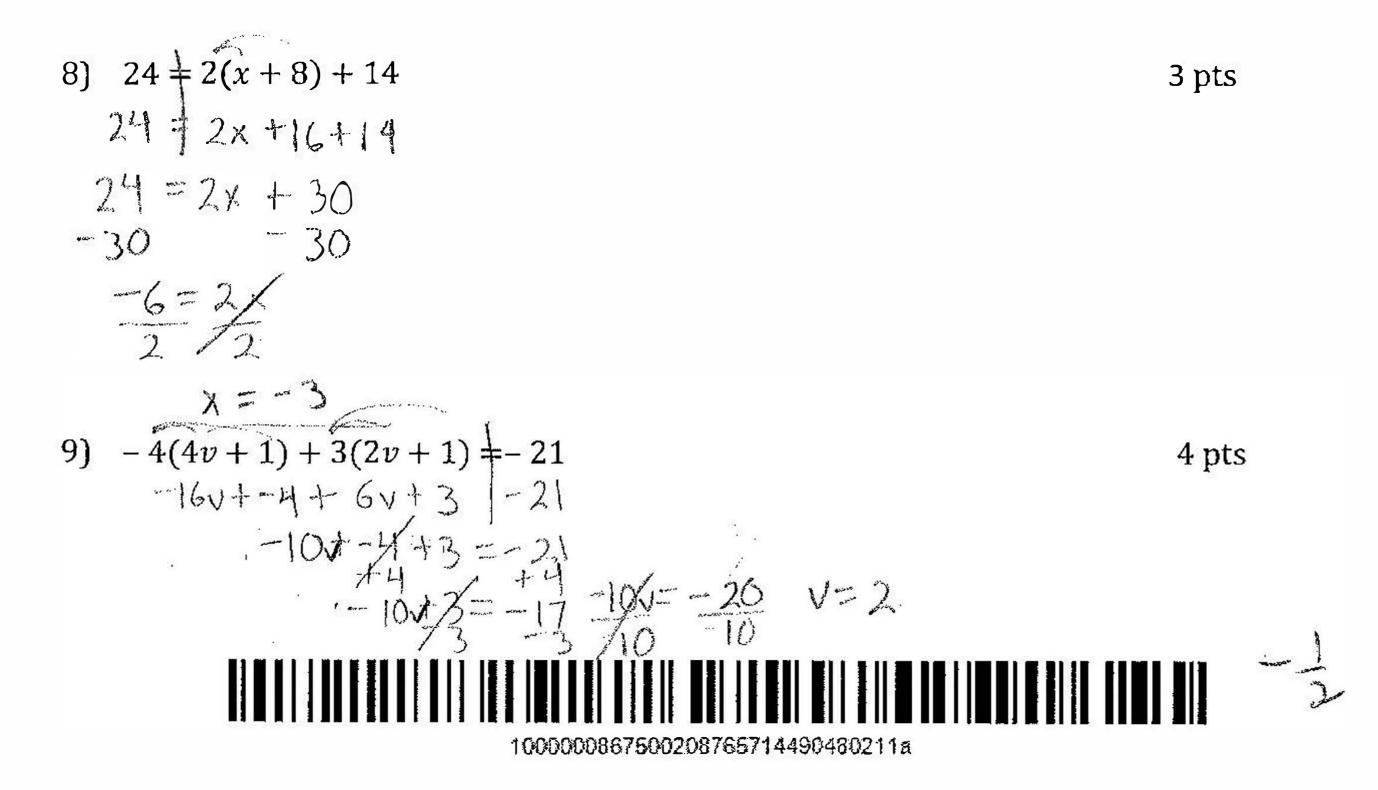
3 pts

3 pts -1 2

3 pts

+181+18

 $\frac{3}{m} = \frac{24}{3}$ m = 8



|                 | Algebra I-CA-FE-v1.0 (Final Exam Written Portion) |                   |
|-----------------|---|-------------------|
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| Preview Course  |   | 211.2097          |
|                 |   |                   |

| 1. $4k - 10 = 26$           | $\frac{a}{2} + 9 = 6$     | 1. 0 1 2           |
|-----------------------------|---------------------------|--------------------|
|                             |                           | 2. 0 1 2           |
| 3. $6 + 2(2 + n) = 13 + 2n$ | 4. $61 = -3a + 8(6a + 2)$ |                    |
|                             |                           | 3. (0) (1) (2) (3) |
|                             |                           | 4. 0 1 2 3 4       |
| 5. $-4(1-7x) = 2(8x-8)$     |                           | 5. 0 1 2 3 4       |
|                             |                           |                    |
|                             |                           |                    |

For questions 1-5, solve each equation. Show ALL work for full credit For problems 6 and 7, solve AND graph each inequality. Show ALL work

| 6-7. $9 > n + 2$ | 8-9. $2x + 3 - 7x \le -22$ | 6. 💿       |
|------------------|----------------------------|------------|
|                  |                            | 7. 💿       |
|                  |                            | 8. 0 1 2 3 |
| │ ←───→          | ▲ →                        | 9. ©       |
|                  |                            |            |



|                 | Algebra I-CA-QZ-v1.0 (Unit 4 Graphing Quiz) |                   |
|-----------------|---|-------------------|
| Preview Student |   | Page 1 of 2       |
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| Preview Course  |   | 211.2182          |

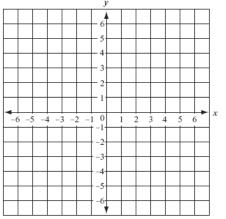
Graph the system of equations. Then, determine if the system has one solution, no solution, or infinitely many solutions. If there is one solution, name it.

1.\_\_\_\_\_

0 0 0 3

| 2. $4x - 2y = 6$ |  |
|------------------|--|
|------------------|--|

-2x + y = 1



| 2 |   |   |   |   |   |  |
|---|---|---|---|---|---|--|
| 0 | 1 | 2 | 3 | 4 | 5 |  |

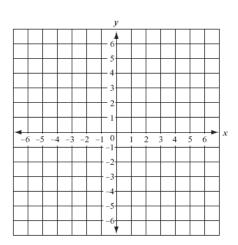


| Algebra I-CA-QZ-v1.0 (Unit 4 Graphing Quiz) |                   |
|---|-------------------|
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| Preview Course                              | 211.2182          |

## Graph the linear inequality

## 3. 2x + y < -3

3. 0 1 2 3 4



## Graph the system of inequalities

4. 
$$y > \frac{1}{2}x + 1$$

4. 0 1 2 3 4 5



 $y \leq -x + 3$ 

|                                  | Algebra I-CA                | A-QZ-v1.0 (Ch. 4 Quest)     |                   |
|----------------------------------|-----------------------------|-----------------------------|-------------------|
| Preview Student                  | -                           |                             | Page 1 of 3       |
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| Preview Course                   |                             |                             | 211.2050          |
|                                  |                             |                             |                   |
| Find the <i>x</i> -intercept and | d y-intercept of the        | graph of each equation. DO  | NOT GRAPH!!!      |
| 1-2. $6x - 4y = 12$              |                             | 3-4. $-2x + 5y = -10$       |                   |
|                                  |                             |                             |                   |
| 1. <i>x</i> -intercept:          | 0                           | 3. x-intercept:             | (0)               |
| 2. <i>y</i> -intercept:          | ©                           | 4. y-intercept:             | 0                 |
| Find the slope of the lir        | ne that passes throu        | ugh the points.             |                   |
| 5. (4, 2) and (3, 4)             |                             | 6. (5, 1) and (5, -2)       |                   |
|                                  |                             |                             |                   |
| Slope:                           | 0 1 2 3                     | Slope:                      | 0 0 2 3           |
| Find the slope of the gi         | ven graphs.                 |                             |                   |
| 7. Slope:                        | 0 0 2                       | 8. Slope:                   |                   |
|                                  |                             |                             |                   |
| Identify the slope and y         | <i>intercept</i> of the lir | ne with the given equation. |                   |
| 9-10. $y = 8x - 3$               |                             | 11-13. $2x + 9y = 9$        |                   |
|                                  | 11. Slo                     | ope-Intercept Form          | 0 1 2             |
| 9. Slope: ①                      |                             | 12. Slope:                  | $\odot$           |
| 10. <i>y</i> -intercept:         | _ 0                         | 13. <i>y</i> -intercept: @  | $\mathbf{D}$      |
|                                  |                             |                             |                   |

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 $\bigcirc$ 

 $\bigcirc$ 

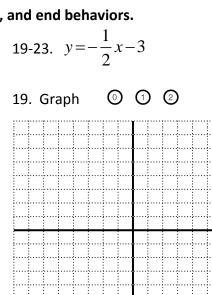
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Graph each equation and find the domain, range, and end behaviors.

14-18. y = 5x + 2

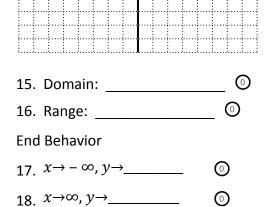
14. Graph



20. Domain: \_\_\_\_\_

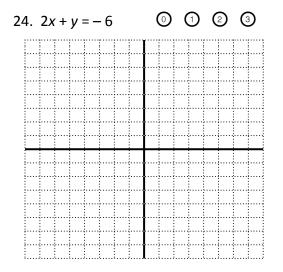
21. Range: \_\_\_\_\_

22.  $x \rightarrow -\infty$ ,  $y \rightarrow$ \_\_\_\_\_



0 0 2

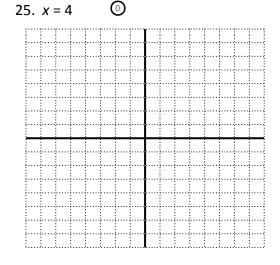
## Graph each equation below.





23.  $x \rightarrow \infty$ ,  $y \rightarrow \_$ 

End Behavior





|                 | Algebra I-CA-QZ-v1.0 (Ch. 4 Quest) |
|-----------------|------------------------------------|
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| Preview Course  | 211.2050                           |

### Determine whether the equation represents a direct variation.

| 26. $y = 4x$                     |   | 27. $y = -3x + 9$                |   |
|----------------------------------|---|----------------------------------|---|
| Direct Variation (circle answer) | 0 | Direct Variation (circle answer) | 0 |
| YES NO                           |   | YES NO                           |   |

## MULTIPLE CHOICE Circle the correct answer. (1 point each)

28. The slope of the line that passes through the points (-2, 4) and (-3, 7) is \_\_\_\_\_.

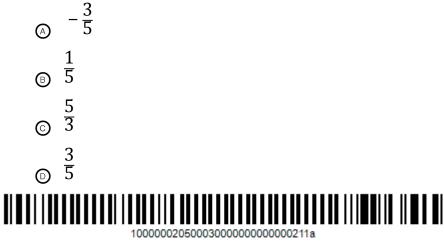
A negative
B positive
C undefined
D zero

29. What is the value for y for the line that has a slope of  $-\frac{3}{2}$  and passes through the points

(3, 5) and (7, y) ?

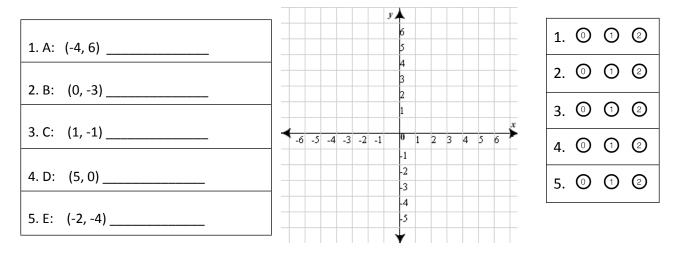
30. If the variables x and y represent a direct variation and y=5 when x = -10, which equation correctly represents this direct variation?

31. What is the slope of the line with the equation 3x - 5y = 2?



|                 | Algebra I-CA-QZ-v1.0 (Functions Days 1-4 Quiz) |
|-----------------|--|
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| Preview Course  | 211.1922                                       |

## For questions 1-5, identify the quadrant or axis the points lie on. Then graph and label the points



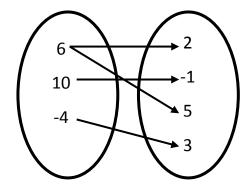
#### Use the functions below for questions 6-11 and evaluate at the given value.

f(x) = -2x + 3  $g(x) = 4^x$   $h(x) = x^2 + 4$ 

| 6. g(3) =   | 7. h(-2) =            | 6. 0 0 0           |
|-------------|-----------------------|--------------------|
|             |                       | 7. ① ① ②           |
| 8. f(9) =   | 9. <i>h</i> (1) - 3 = | 8. 0 0 2           |
|             |                       | 9. (0) (1) (2) (3) |
| 10. f(3a) = | 11. f(2y - 1) =       | 10. 0 0 0          |
|             |                       | 11.0 0 2 3         |



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| 12. Does this mapping represent a function?<br>Why? | 12. 1 12. 10 |
|---|--------------|
| 13. What is the domain of this relation?            | 13. ① ①      |
| 14. What is the range of this relation?             | 14. ③ ①      |
| 15. Write the inverse of this relation              | 15. 1 15.    |

| x  | У  |
|----|----|
| -2 | 5  |
| 0  | 6  |
| 2  | 5  |
| 4  | 3  |
| 6  | -1 |

| 16. Does this mapping represent a function?<br>Why? | 16. 0 0 2 |
|---|-----------|
| 17. What is the domain of this relation?            | 17. 💿 🛈   |
| 18. What is the range of this relation?             | 18.       |
| 19. Write the inverse of this relation              | 19. 🛈 🛈   |



|                 | Algebra I-CA-QZ-v1.0 (3.1-3.4 Quiz) |                   |
|-----------------|-------------------------------------|-------------------|
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| Preview Course  |                                     | 211.1738          |

Solve each equation below for the given variable.

| $\frac{x}{10} = -29$ | $\odot$ $\bigcirc$ |
|----------------------|--------------------|
| 1)                   | 00                 |

| 2) $r - (-6) = 1$ | 0 1 |
|-------------------|-----|
| <b>(</b> )        |     |

| 3) $-12 = 17 - a$ | 0 1 2 |
|-------------------|-------|
|-------------------|-------|

| 4) $-n - n = -8$ | 0 0 2 |
|------------------|-------|
| • /              |       |

| <b>5</b> ) $-4 = 6k - 8k$ | $\odot$    | $\mathbf{G}$ | ര |
|---------------------------|------------|--------------|---|
| 5) - 4 = 0k - 0k          | $\bigcirc$ | U            | 2 |

| 6) $x + 2x = -16 + 5x$ | 0 | 1 | 2 | 3 |
|------------------------|---|---|---|---|
|------------------------|---|---|---|---|



| Algebra I-CA-                     | QZ-v1.0 (3.1-3.4 Quiz) |
|-----------------------------------|------------------------|
| Preview Student                   | Page 2 of 3            |
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| Preview Course                    | 211.1738               |
| 8) $-2 - 6k - 7k = -2 - 4k$       | 0 1 2 3 4              |
| <b>9</b> ) $8n + 36 = 6(n + 8)$   | 0 1 2 3 4              |
| <b>10</b> ) $-4(6x - 1) = 4 - 4x$ | 0 1 2 3 4              |
| 11) $8(p+7) = -2(-7p-7)$          | 0 1 2 3 4              |



| Algebra I-CA-QZ-v1.0 (3.      | 1-3.4 Quiz)       |
|-------------------------------|-------------------|
| Preview Student               | Page 3 of 3       |
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| Preview Course                | 211.1738          |
| 12) 2(4x - 6) = 4(2x - 3)     | 0 1 2 3 4         |
| 13) 24 - 7r = -3(1 - 5r) + 5r | 0 0 2 3 4 5       |

It costs \$30 a year to join Durak's House of Muscle. Each time a member enters, they must pay a fee of \$2. When a nonmember shows up, they pay a fee of \$5. After how many visits will the member's costs equal the nonmember's cost.

| 14) Variable | 0 0             |
|--------------|-----------------|
| 15) Equation | $\odot$ $\odot$ |
| 16) Answer   | 0 1 2           |



|                 | Algebra I-CA-FE-v1.0 (Final Exam Written Portion) |                   |
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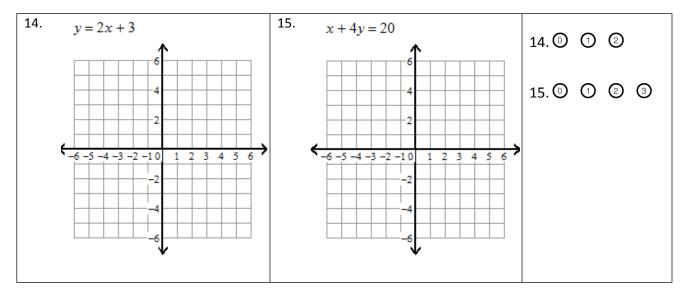
## Solve the compound inequality. Do NOT graph. Show all work.

| $10.12 < 4x + 4 \le 16$ | 10.0 0 2 3 |
|-------------------------|------------|
|                         |            |
|                         |            |

Establish a variable, write an equation, and solve the word problem below. Be sure to label your answer.

| A contractor purchases ceramic tile to remodel a kitchen floor. Each<br>tile costs \$4, and the adhesive and grouting material costs \$17.82. If<br>the contractor is charged a total of \$545.82, how many ceramic tiles<br>did he purchase? | 11. ©<br>12. © |
|---|----------------|
| 11. Variable:   | 13. 🛈          |
| 12. Equation:   |                |
|   |                |
| 13. Solution:   |                |

#### Sketch the graph of each line below





|                 | Algebra I-CA-FE-v1.0 (Final Exam Written Portion) |        |
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## Find the slope of the line through each pair of points

| 16. (3, -12) and (-20, -12) | 17. (-9, 14) and (-17, 16) | 16. <sup>(0)</sup> <sup>(1)</sup> <sup>(2)</sup><br>17. <sup>(0)</sup> <sup>(1)</sup> <sup>(2)</sup> |
|-----------------------------|----------------------------|--|
|                             |                            |  |

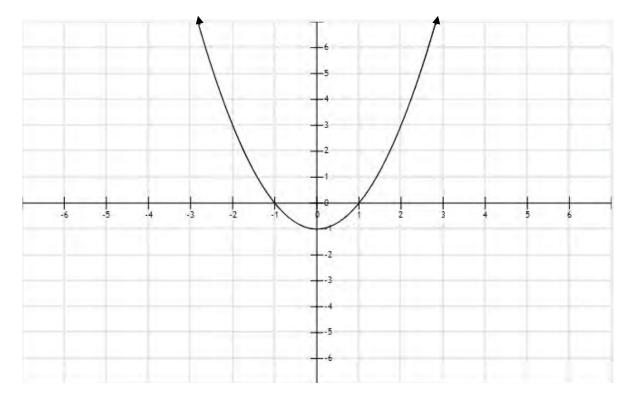
# For problems 16-18, write the <u>slope-intercept form of the equation</u> of the line with the given characteristics

| 18. Slope = $\frac{1}{2}$ y –intercept = $-5$    | 18. 1               |
|--|---------------------|
|  |                     |
| 19. Slope = $2$ through the point $(3, 4)$       |                     |
|  | 19. (0) (1) (2) (3) |
|  |                     |
|  |                     |
| 20. Through the points ( – 5, – 3) and ( – 1, 1) | 20. 0 1 2 3 4       |
|  |                     |
|  |                     |
|  |                     |



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# Use the graph below to answer questions 21-26.



| 21.Domain:                                       | 21. ①           |
|--|-----------------|
| 22. Range:                                       | 22. 🛈           |
| 23. $x \rightarrow -\infty, f(x) \rightarrow \_$ | 23. 🛈           |
| 24. $x \to \infty, f(x) \to \_$                  | 24. 🛈           |
|  | 25. (0) (1) (2) |
| 25. x-intercept(s):                              | 26. 🛈           |
| 26. y-intercept(s):                              |                 |
|  |                 |

