Christ the King Diocesian HIgh School Algebra 2 Summer Math Packet

This packet will help you review basic algebra concepts.

- Please show all your work. No work No Credit!!!
 (if you need more room use loose leaf paper to do your work and staple it to the corresponding worksheet)
- You will be expected to do a worksheet every week.
- Do not wait to do all of the worksheets at one time.
- This packet will be due Wednesday August 16, 2023

Proposed schedule

Worksheet	Date: Week of	
Worksheet 1	June 5	
Worksheet 2	June 12	
Worksheet 3	June 19	
Worksheet 4	June 26	
Worksheet 5	July 3	
Worksheet 6	July 10	
Worksheet 7	July 17	
Worksheet 8	July 24	

Teacher/User Name: L. Taylor	
Alg 2 Summer Math Page 1 Divisibili	ty

Name:		
Period:	Date:	

Solve

- I am a number between 300 and 310. I am divisible by 4 and 7. What number am I?
- I am a number between 240 and 250. I am divisible by 7 and 5. What number am I?

- 3) I am a number between 630 and 640. I am divisible by 4 and 3. What number am I?
- 4) I am a number between 320 and 330. I am divisible by 2 and 7. What number am I?
- 5) I am a number between 150 and 160. I am divisible by 4 and 3. What number am I?
- 6) I am a number between 790 and 800. I am divisible by 3 and 5. What number am I?
- 7) I am a number between 20 and 30. I am divisible 8) by 3 and 7. What number am I?
- I am a number between 10 and 20. I am divisible by 4 and 3. What number am I?

- 9) I am a number between 140 and 150. I am divisible by 3 and 7. What number am I?
- 10) I am a number between 760 and 770. I am divisible by 9 and 5. What number am I?

Solve for x:

1)
$$0 = -x - (-3x - 4)$$

2)
$$3(-4x + 2) - 3x + 2 = 53$$

3)
$$x + 2(-5x - 4) = -35$$

4)
$$(x+1)-2x=-1$$

5)
$$37 = -3x + 5 + 2(-3x - 2)$$

6)
$$-3(x-5) + x = 9$$

7)
$$5 - (-3x + 1) = -2$$

8)
$$4 + 4(-3x - 4) = 12$$

9)
$$2 = -(-x + 4) + x + 2$$

10)
$$19 = 4(x + 2) - 2x + 3$$

Solve for x:

1)
$$-2x - 3 = 2x + 9$$

2)
$$-4x - 2 = 4x + 14$$

3)
$$4x + 2 = -4x - 22$$

4)
$$-3x + 1 = x - 15$$

5)
$$-2x = 4x - 6$$

$$6) 4x + 3 = -2x - 9$$

7)
$$-4x + 2 = -3x$$

8)
$$4x + 5 = -4x + 5$$

9)
$$-5x - 4 = -4x - 9$$

10)
$$-3x + 2 = -3x + 1$$

Solve for x:

1)
$$-4x - 5 = 2x - 17$$

2)
$$-x - 4 = x - 12$$

3)
$$x-4=-x+4$$

4)
$$-x + 2 = -5x - 6$$

5)
$$3x + 4 = -2x + 24$$

6)
$$4x + 2 = -x + 12$$

7)
$$-x + 4 = -3x + 4$$

8)
$$-4x - 4 = -5x - 6$$

9)
$$-3x + 1 = x + 9$$

10)
$$-5x = -x - 16$$

Solve:

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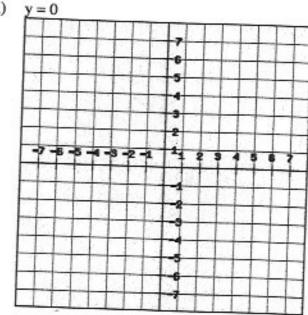
Alg 2 Summer Math Page 6 Graphing Slope Intercept

Form

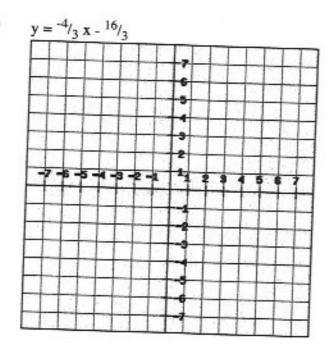
Name:__ Period: _____ Date: _

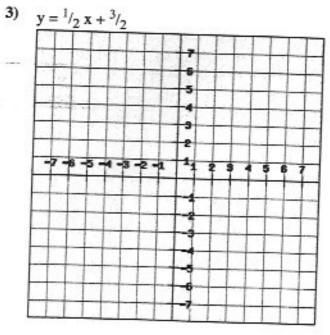
Graph the Line

1)

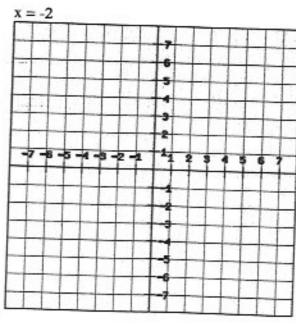


2)





4)

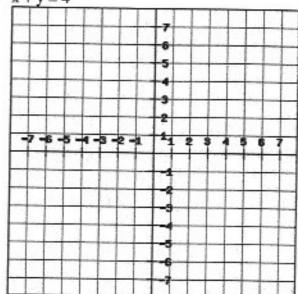


intercepts

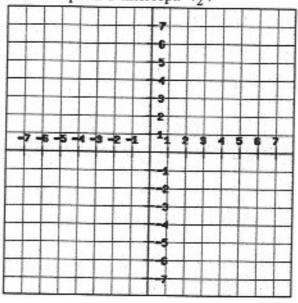
Name: _____ Date: _____

Graph the Line

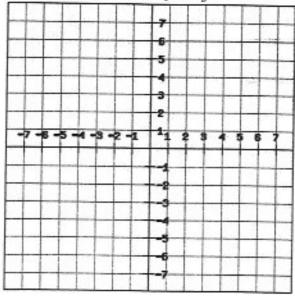
1) x + y = 4



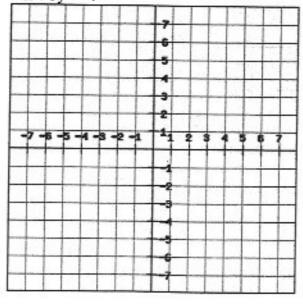
X-intercept: -2 Y-intercept: ³/₂.



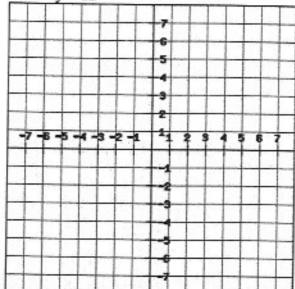
3) X-intercept: -1 Y-intercept: -4/3.



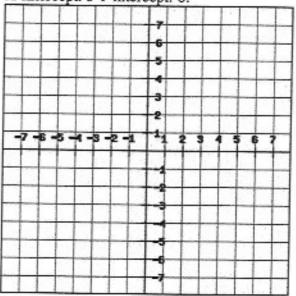
4) -4x + 3y = -4



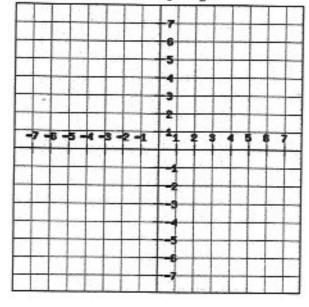
5) -3x + 4y = 12



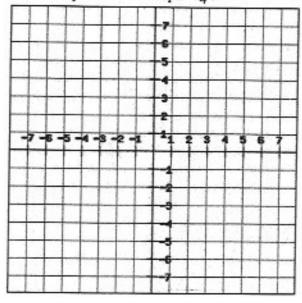
X-intercept: 3 Y-intercept: 6.



X-intercept: 1 Y-intercept: ³/₂.



8) X-intercept: -3 Y-intercept: 9/4.



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Alg 2 Summer Math Page 8 Multiplying Monomials

Name:______ Date: ______

Simplify:

1)
$$(5a^2s)(a^2s^{-1})$$

9)
$$(5a^2u^2)(-5a^3u)$$

10)
$$(a^2n)(a^3)$$