

Day	Date	Assignment (Due the next class meeting)	
Thursday Friday	5/25/23 (A) 5/26/23 (B)	In class: Notes on Algebra Review HW: Algebra Review Wk	
Tuesday Wednesday	5/30/23 (A) 5/31/23 (B)	In class: Start Sem 2 Rev Wk #1 HW: Finish Sem 2 Rev Wk #1	
Thursday Friday	6/01/23 (A) 6/02/23 (B)	In class: Start Sem 2 Rev Wk #2 HW: Finish Sem 2 Rev Wk #2	
Monday	6/05/23 (C Day)	In class: Grade/Correct Sem 2 Rev Wk #2 HW: make your Notes Page for the Final	
Tuesday Wednesday	6/06/23 (A) 6/07/23 (B)	In class: Start Practice Final HW: Finish Practice Final	
Thursday Friday	6/08/23 (A) 6/09/23 (B)	In class: Correct Practice final; review day HW: finish your Notes Page for the Final	
FINAL Exams	Monday 6/12/23	Tuesday 6/13/23	Wednesday 6/14/23
	Per 1 (8:00 – 10:00 am) Per 4 (10:10 – 12:10 pm)	Per 2 (8:00 – 10:00 am) Per 5 (10:10 – 12:10 pm)	Per 3 (8:00 – 10:00 am) Per 6 (10:10 – 12:10 pm)

Notes:

- Seniors in periods 2 and 3 will take their finals early (on Thurs 6/8/23)
- Seniors in periods 5 and 6 will take their finals early (on Friday 6/9/23)
- SENIORS... please talk to your teachers to get the review materials early.
- All worksheets and solutions are posted on the website: www.DRHSmath@washoeschools.net
- Students will get to use a student-created, hand-written Notes Page on the final
 - 1 full page, front and back

Algebra Review Notes

Objectives

- Graph lines in slope-intercept form
- Multiply binomials
- Factor trinomials
- Factor difference of perfect squares

Graphing Lines

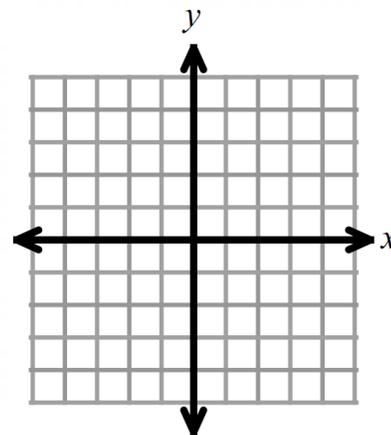
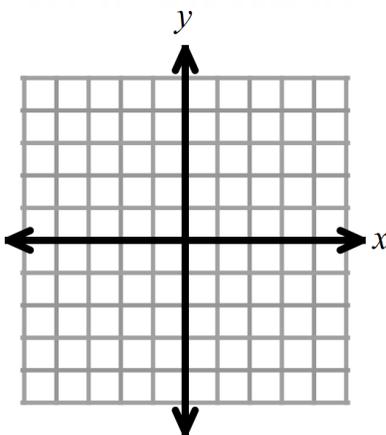
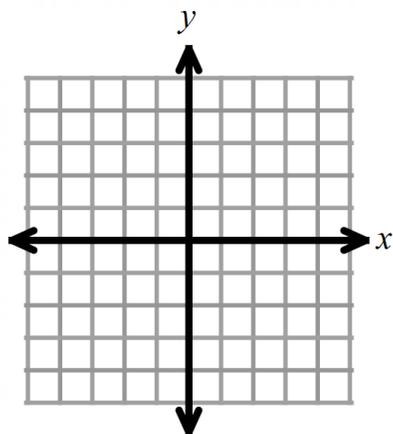
Slope of a Line	
y-intercept of a line	
Slope-Intercept Form of a Line	$y = mx + b$
Graphing Lines in Slope-Intercept Form	<p>1) begin with the _____ (b)</p> <p>2) move to a 2nd point by using the _____ (m)</p>

For #1 – 3: graph each line. Include at least two points.

1) $y = \frac{3}{5}x - 2$

2) $y = -4x + 3$

3) $y = x$

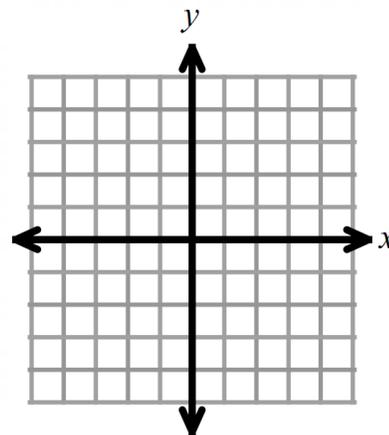
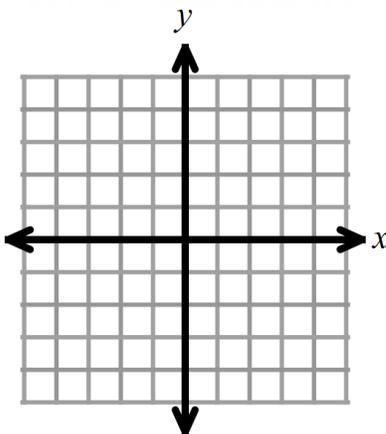
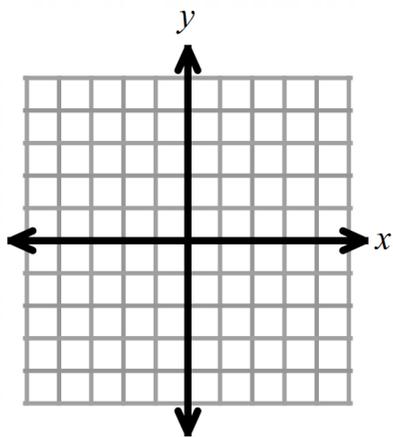


You Try! Graph #4 – 6 on the coordinate systems provided below.

4) $y = 2x - 4$

5) $y = -\frac{3}{2}x + 1$

6) $y = x - 2$



Multiplying Binomials

Binomial	
Multiplying Binomials	$(a + b)(c + d)$ <ol style="list-style-type: none"> 1) Distribute the first term into the 2nd binomial. 2) Distribute the 2nd term into the 2nd binomial. 3) Combine like terms.
FOIL	

For #7 – 9, multiply the binomials. (Challenge... try to do these in your head!)

7) $(x + 3)(x - 2)$

8) $(a + 2)(a + 5)$

9) $(b - 4)(b + 4)$

You Try! For #10 – 12, multiply the binomials. (Challenge... try to do these in your head!)

10) $(d + 8)(d - 2)$

11) $(y + 7)(y + 3)$

12) $(h + 5)(h - 5)$

Factoring Trinomials

Trinomial	
Factoring Trinomials in the form $x^2 + bx + c$.	$x^2 + bx + c$ <ol style="list-style-type: none"> 1) Find two factors of c that have a sum of b. 2) Use the factors to write two binomials that are multiplied. 3) Check by multiplying the binomials. $\underline{\quad} + \underline{\quad} = b$ $\underline{\quad} \cdot \underline{\quad} = c$

For #13 – 15, factor each trinomial.

13) $x^2 + 10x + 16$

14) $x^2 + 2x - 15$

15) $x^2 - 9x + 18$

You try! Factor #16 – 18.

16) $x^2 - 3x - 10$

17) $x^2 - 13x + 22$

18) $x^2 + 6x + 5$

Factoring Difference of Perfect Squares

Difference of Perfect Squares	
Factoring Difference of Perfect Squares	$a^2 - b^2$ <ol style="list-style-type: none">1) Find the square root of each term (a and b)2) Create two binomials (one with the sum of the square roots, and one with the difference of the square roots.) $(a + b)(a - b)$3) Check by multiplying the binomials.

For #19 – 21, factor each expression.

19) $y^2 - 4$

20) $a^2 - 49$

21) $81 - h^2$

You try! Factor #22 – 24.

22) $b^2 - 36$

23) $100 - d^2$

24) $x^2 - 1$

Algebra Review Worksheet

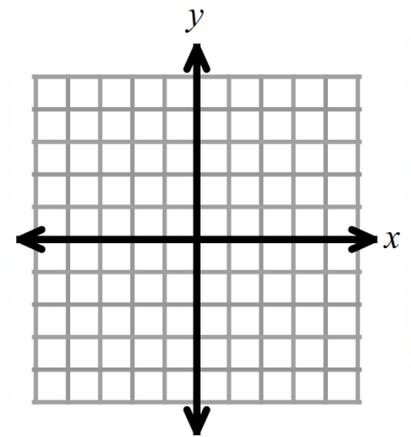
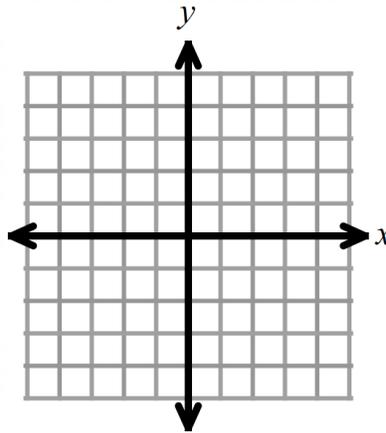
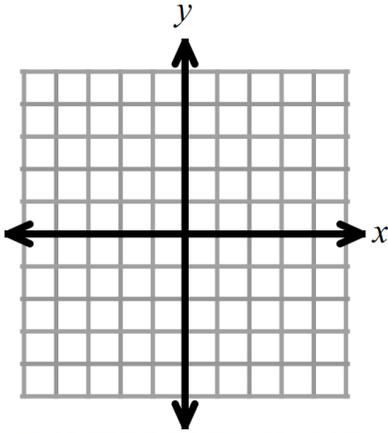
Name _____

For #1 – 6, graph each line on the provided coordinate system.

1) $y = \frac{5}{2}x - 3$

2) $y = x + 2$

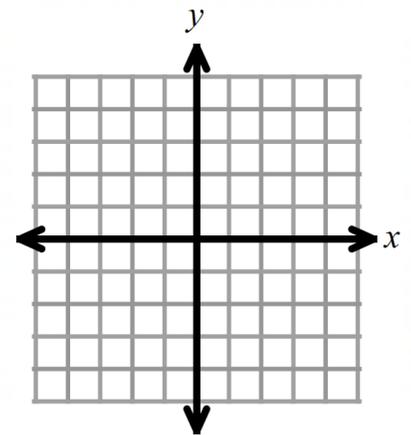
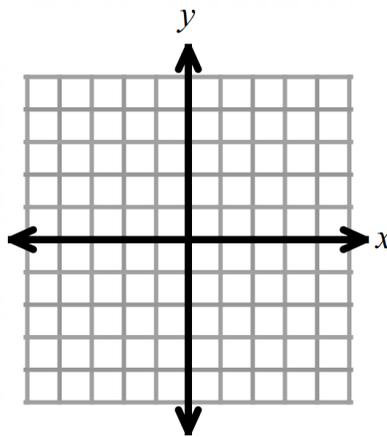
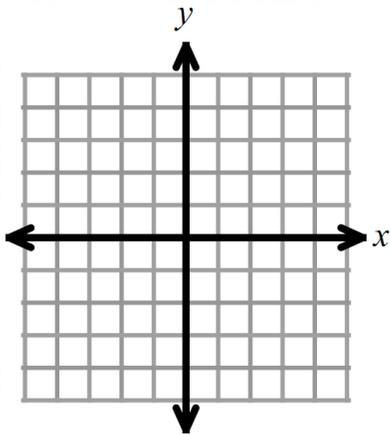
3) $y = -3x + 4$



4) $y = -\frac{1}{4}x + 1$

5) $y = \frac{2}{3}x$

6) $y = -x$



For #7 – 9, factor each trinomial.

7) $x^2 + 8x - 20$

8) $x^2 - 2x - 24$

9) $x^2 + 7x + 12$

Algebra Review Worksheet, continued...

For #10 – 21, factor each expression.

10) $x^2 - 121$

11) $25 - w^2$

12) $b^2 - 144$

13) $x^2 + x - 6$

14) $x^2 - 9$

15) $x^2 + 15x + 50$

16) $64 - m^2$

17) $x^2 - 3x - 28$

18) $1 - x^2$

19) $a^2 - 100$

20) $x^2 + 7x - 18$

21) $x^2 - 4x + 3$