**Unit 1: Factoring and Graphing Quadratics**

**By the end of the unit students will be able to:**

1) Factor quadratic binomial, trinomial, and polynomials of 4 terms.

2) Solve quadratic equations by factoring.

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| **Day** | **Date** |  **Lesson** | **Assignment** | **Checked** |
| 1 | Mon. Aug. 28th  | Introductions and ExpectationsAdding/Subtracting Polynomials | Homework 1-1Diversity QuiltForms/Surveys |  |
| 2 | Tues. Aug. 29th  | Multiplying Polynomials | Homework 1-2 |  |
| 3 | Wed. Aug. 30th  | Factoring: GCF, Grouping, Difference of Squares | Homework 1-3 |  |
| 4 | Thurs. Aug. 31st  | Review Factoring Trinomials | Homework 1-4 |  |
| 5 | Fri.Sep. 1st  | **Review and Quiz** | Homework 1-5 |  |
| 6 | Mon. Sep. 4th  | Labor DayNo School ☺ |  |  |
| 7 | Tues.Sep. 5th  | Solve by Factoring | Homework 1-6 |  |
| 8 | Wed. Sep. 6th  | Solve by Factoring | Homework 1-7 |  |
| 9 | Thurs.Sep. 7th  | Review for Unit 1 Test | Review for Test |  |
| 10 | Fri. Sep. 8th  | Test | Unit 2 Placemat |  |

**Honors Math 2 HW 1-1 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1.** $\left(6b+4b^{5}\right)+(3b^{5}-5b)$ **2.** $\left(8n^{2}+7n^{4}\right)-(9n^{4}-2n^{2})$

**3.** $\left(5p^{2}-3p\right)+(2p^{2}-3p^{3})$ **4.** $\left(4+2n^{3}\right)+(5n^{3}+2)$

**5.** $\left(3a^{2}+1\right)-(4+2a^{2})$ **6.** $\left(-4k^{4}+14+3k^{2}\right)+(-3k^{4}-14k^{2}-8)$

**7.** $\left(12a^{5}-6a-10a^{3}\right)-(10a-2a-14a^{4})$ **8.** $\left(8b^{3}-6+3b^{4}\right)-(b^{4}-7b^{3}-3)$

**9.** $7(-5v-8)$ **10.** $6v(2v+3)$

11. $2x(-2x-3)$ **12.**$(2n+2)(6n+1)$

**13.** $(6p+8)(5p-8)$ **14.** $(7k-3)(k^{2}-2k+7)$

**15.** $\left(7r^{2}-6r-6\right)(2r-4)$ **16.** $(n^{2}+6n-4)(2n-4n+1)$

**Honors Math 2 HW 1-3 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Factor completely:**

1. 4d4 – 2d10 + 12d5 2. 8x6 + 2v5 – 10x9 3. 24a2b5 – 48a3b7

4. 2x2 + 4xy – 6x – 12y 5. 2ah + h + 2ab + b 6. X2 – 25

7. 2a2 + 4a + 3ab + 6b 8. 25d3 – 100d2 – d + 4 9. y3 - 7y2 + 4y – 28

10. 9g2 – 25 11. X4 – 16 12. 3x2 - 75

**Honors Math 2: Factoring HW 1-4**

|  |  |  |
| --- | --- | --- |
| 1. x2 – 18x + 80  | 2. 5x2y - x2 + 5y - 1  | 3. 3y2 – 15y + 18 |
| 4. a3 – a2b + ab2 – b3  | 5. x4 – 15x3 + 56x2 | 6. k2 – 8k + 16 |
| 7. 2z2 – 12z + 18  | 8. c4 + c3 – 12c - 12 | 9. 25y2 – 100  |

**Honors Math 2 HW 1-5 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Factor or Simplify each of the following as needed. Check your work!! ☺**

1. $4x^{2}-81$ 2. $\left(4b-2a+4\right)-(4b^{2}-5x+2b)$

3. $(x+7)(2x-3)$ 4. $4b-2a+7-6b+2a+3c-4(a-5b+2)$

5. $(3x+7)(3x-7)$ 6. $-4b^{2}(-2b^{3}+6b-2c+7)$

7. $3x^{4}-48x^{3}+180x^{2}$ 8. $3x^{2}+14x+8$

9. $4x^{2}-81$ 10. $4x^{2}y+2xy-36x-18$

**HW 1-6 and 1-7: Solving Quadratic Equations**

**1-6 Assignment: Odd Problems 1-7 Assignment: Even Problems**

**Solve each equation by factoring. Solve each equation by factoring.**

**Use your OWN PAPER! ☺ Use your OWN PAPER! ☺**



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