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FACTORIZING TRINOMIALS A 1 DATE PERIOD KUTA SOFTWARE PDF - Search results, ©1 t2t0 w1v2 Y PKOuct 4aN IS po 9fbt ywGaZr 2eh 3L DLNCR.v Y gAhlcll XrBiug GhWtdsd Frle Zsve pr7v Qexd C.p v dMnaMdfev lw TiSt1h t HlbnZf difngikt le O sAOI1g fe Gb8r6a e Q1Y.M Worksheet by Kuta Software LLC, ©3 52n0 1A2j DKHunt wae XSkoBfbt RwMacrHeV OLILCX.G K uA vlrla Sr1iWg2hlt ysp TrSe GsGe5r5v ye5dl. R 1 IM 7aXdVe8 BwSi1tph 9 olXnAfGianViFteo mAPI8gekbr1a0 M1A.H Worksheet by Kuta Software LLC, Factoring - Trinomials where a = 1 Objective: Factor trinomials where the coefficient of x^2 is one. Factoring with three terms, or trinomials, is the most important type of factoring to be able to master. As factoring is multiplication backwards we will start with a multiplication problem and look at how we can reverse the process. Example 1., of a number, 1, a monic linear polynomial, x^2 , and two monic quadratic polynomials that don't have roots, $x^2 + 2x + 2$ and $x^2 + 5x + 7$. That is $(x^2 + 2x + 2)(x^2 + 5x + 7) = x^4 + 14x^3 + 21x^2 + 20x + 14$. (We can

check the discriminants of $x^2 + 2x + 2$ and $x^2 + 5x + 7$ to see that these two quadratics don't have roots.) $(x^2 + 2x + 2)(x^2 + 5x + 7) = (x^2 + 3x + 4)(x^2 + x + 4)$. Again, $x^2 + 3x + 4$ and $x^2 + x + 4$ don't have roots., Example 2 Factoring a Trinomial Factor the trinomial Solution To factor this trinomial, you need to find two factors whose product is and whose sum is The product of 2 and is The sum of 2 and is Now try Exercise 11. Applications of algebra sometimes involve trinomials that have a common monomial factor., Algebra Worksheet © Section 10.6 Name _____ Factoring Polynomials of the form $ax^2 + bx + c$ Factor 1. $2x^2 + 5x + 2$, Factoring Trinomials; $ax^2 + bx + c$, $a = 1$ Addition Method Procedure: 1. Find the factors of the constant, c 2. Find the factors of c whose sum is b 3. Rewrite the polynomial as $(f)(g)$ Factor the following completely.) Look for a GCF first. 1. $x^2 + 5x + 6$ 2. $x^2 + 7x + 12$ 3. $x^2 + 8x + 15$ 4. $x^2 + 9x + 14$ 5. $x^2 + 10x + 21$ 6. $x^2 + 11x + 28$ 7. $x^2 + 12x + 36$ 8. $x^2 + 13x + 42$ 9. $x^2 + 14x + 49$ 10. $x^2 + 15x + 54$ 11. $x^2 + 16x + 63$ 12. $x^2 + 17x + 72$ 13. $x^2 + 18x + 81$ 14. $x^2 + 19x + 90$ 15. $x^2 + 20x + 100$ 16. $x^2 + 21x + 110$ 17. $x^2 + 22x + 121$ 18. $x^2 + 23x + 132$ 19. $x^2 + 24x + 144$ 20.

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