FACTORING TRINOMIALS
$$ax^{2}+bx+c$$

7.6

Factor the trinomial.

1) $2x^{2}-x-3$ 2) $3t^{2}+16t+5$ 3) $5x^{2}+ 2x-3$

4) $6a^{2}+ 5a+1$ 5) $5w^{2}-9w-2$ 6) $6b^{2}-11b-2$

7) $8b^{2}+2b-3$ 8) $6x^{2}-9x-15$ 9) $12y^{2}-20y+8$

10) $2z^{2}+19z-10$ 11) $6y^{2}-11y-10$ 12) $4x^{2}+27x+35$

13) $4n^{2}-22n-42$ 14) $3c^{2}-37c+44$ 15) $24r^{2}-6r-45$

16) $6w^{2}+w-70$ 17) $14y^{2}-15y+4$ 18) $8y^{2}-26y+15$

19) $20x^{2}+5x-15$ 20) $12x^{2}-19x+4$ 21) $6x^{2}+7x-20$

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ANSWERS

1. (2x – 3)(x + 1) 2. (3t + 1)(t + 5)

3. (5x – 3)(x + 1) 4. (2a + 1)(3a + 1)

5. (5w + 1)(w – 2) 6. (6b + 1)(b – 2)

7. (2b – 1)(4b + 3) 8. 3(x + 1)(2x – 5)

9. 4(y – 1)(3y – 2) 10. (2z – 1)(z + 10)

11. (2y – 5)(3y + 2) 12. (4x + 7)(x + 5)

13. 2(n – 7)(2n + 3) 14. (3c – 4)(c – 11)

15. 3(2r – 3)(4r + 5) 16. (2w + 7)(3w – 10)

17. (7y – 4)(2y – 1) 18. (2y – 5)(4y – 3)

19. 5(4x – 3)(x + 1) 20. (3x – 4)(4x – 1)

21. (2x – 5)(3x – 4)b