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ECONOMICS

Principles to Practice



NAME _____ DATE _____ PERIOD _____

8-2 Practice

Factoring Using the Distributive Property

Factor each polynomial.

- | | | |
|-------------------------------|------------------------------|--------------------------------|
| 1. $64 - 40ab$ | 2. $4d^2 + 16$ | 3. $6r^2s - 3rs^2$ |
| 4. $15cd + 30c^2d^2$ | 5. $32a^2 + 24b^2$ | 6. $36xy^2 - 48x^2y$ |
| 7. $30x^3y + 35x^2y^2$ | 8. $9c^3d^2 - 6cd^3$ | 9. $75b^2c^3 + 60bc^3$ |
| 10. $8p^2q^2 - 24pq^3 + 16pq$ | 11. $5x^2y^2 + 10x^2y + 25x$ | 12. $9ax^2 + 18bx^2 + 24cx$ |
| 13. $x^2 + 4x + 2x + 8$ | 14. $2a^2 + 3a + 6a + 9$ | 15. $4b^2 - 12b + 2b - 6$ |
| 16. $6xy - 8x + 15y - 20$ | 17. $-6mn + 4m + 18n - 12$ | 18. $12a^2 - 15ab - 16a + 20b$ |

Solve each equation. Check your solutions.

- | | | |
|---------------------------|---------------------------|----------------------------|
| 19. $x(x - 32) = 0$ | 20. $4b(b + 4) = 0$ | 21. $(y - 3)(y + 2) = 0$ |
| 22. $(a + 6)(3a - 7) = 0$ | 23. $(2y + 5)(y - 4) = 0$ | 24. $(4y + 8)(3y - 4) = 0$ |
| 25. $2x^2 + 20x = 0$ | 26. $8p^2 - 4p = 0$ | 27. $9x^2 = 27x$ |
| 28. $18x^2 = 15x$ | 29. $14x^2 = -21x$ | 30. $8x^2 = -26x$ |

LANDSCAPING For Exercises 31 and 32, use the following information.

A landscaping company has been commissioned to design a triangular flower bed for a mall entrance. The final dimensions of the flower bed have not been determined, but the company knows that the height will be two feet less than the base. The area of the flower bed can be represented by the equation $A = \frac{1}{2}b^2 - b$.

31. Write this equation in factored form.
32. Suppose the base of the flower bed is 16 feet. What will be its area?
33. **PHYSICAL SCIENCE** Mr. Alim's science class launched a toy rocket from ground level with an initial upward velocity of 60 feet per second. The height h of the rocket in feet above the ground after t seconds is modeled by the equation $h = 60t - 16t^2$. How long was the rocket in the air before it returned to the ground?

Use the sum of the first three terms of the series $1 + x + x^2 + \dots$. Sections 3.6, 3.7. (2) The company has a charity scheme whereby they match any employee charity contribution exactly. Given that the average employee charity contribution is £5 each year, find the total charity donation over the 10-year period from the end of year 1 to the end of year 10. Give your answer in terms of x . (3) Section 3.8 Review Exercise 10. (a) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (b) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (c) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (d) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (e) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (f) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (g) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (h) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (i) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (j) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (k) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (l) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (m) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (n) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (o) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (p) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (q) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (r) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (s) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (t) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (u) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (v) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (w) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (x) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (y) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x . (z) $1 + 2x + 3x^2 + 4x^3 + \dots$ Give your answer in terms of x .

Jagged mathematical text containing various formulas, equations, and mathematical concepts. The text is extremely dense and appears to be a collection of mathematical problems and solutions, possibly related to trigonometry, algebra, and calculus. It includes numerous equations, some with subscripts and superscripts, and some with text descriptions. The text is partially obscured by a large black redaction box in the middle.

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