

Name Arjun

Date _____

Period _____

Factoring Polynomials

Determine whether the given binomial is a factor of the polynomial $P(x)$.

1. $(x - 3)$; $P(x) = x^2 - 3x^2 + 8x - 64$

2. $(x + 3)$; $P(x) = -4x^3 - 12x^2 + 3x^2 + 4x^2 - 3x + 10$

$$\begin{array}{r|rrrrr} x-3 & 1 & -3 & 8 & -64 & \\ \hline & 1 & 0 & 11 & 28 & \end{array}$$

$$\begin{array}{r|rrrrrrr} x+3 & -4 & -12 & 3 & 4 & -3 & 10 & \\ \hline & -4 & 0 & 0 & 17 & 0 & 13 & \end{array}$$

Factor each expression completely. Remember to factor out the GCF first, if there is one.

3. $8x^3 - 12x^2 - 5xy - 25$

4. $x^3 - 64$

$$\begin{array}{r|rr} 8x^3 & 1 & -1 \\ \hline 8x^2 & 1 & -1 \\ -12x^2 & -12 & 12 \\ -5xy & -5 & 5 \\ -25 & -25 & 25 \end{array}$$

$$(x^3 - 64) = (x - 4)(x^2 + 4x + 16)$$

$$5. 24x^3 - 3x^2$$

6. $3x^3 - 3x^2 + 27x - 9$

7. $6x^3 - x^2 + 9x - 3$

$$24x^3 - 3x^2 = 3x^2(8x - 1)$$

$$3x^3 - 3x^2 + 27x - 9 = 3(x^3 - x^2 + 9x - 3)$$

8. $x^3 - 14x^2 + 49x$

9. $16x^2 - 25$

$$x^3 - 14x^2 + 49x = x^2(x - 14x + 49)$$

$$16x^2 - 25 = (4x - 5)(4x + 5)$$

10. $2x^3 - 2x$

11. $10x^3 - 2x^2 - 40x^2 + 8x$

11. $2x^3 - 2x$

12. $5x^3 - 2x^2 - 40x^2 + 8x$

$$2x^3 - 2x = 2x(x^2 - 1)$$

13. $5x^3 - 2x^2 - 40x^2 + 8x$

$$\begin{array}{r|rr} 5x^3 & 1 & -1 \\ \hline 5x^2 & 1 & -1 \\ -2x^2 & -2 & 2 \\ -40x^2 & -40 & 40 \\ 8x & 8 & -8 \end{array}$$

$$12. 10x^3 - 10x^2 + 10x^2 - 10x$$

$$10x^3 - 10x^2 + 10x^2 - 10x = 10x(x^2 - 1)$$

Algebra 2 Unit 4 Test Multiple Choice

H Kauffman



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Conference on Geographical Information Systems GIS LATAM 2024 held in Mexico City Mexico during September 2 6 2024
The 14 full papers were thoroughly reviewed and selected from 35 submissions The papers focused on the following topics
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