Les racines carrées : Exercices

1. Les nombres suivants sont des réels. Indique le n° de la plage dans laquelle tu les places.

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|  | 5 + π² | 1,542222….2…. |

1. Calcule

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1. Barre les réponses incorrectes.

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|  | 9 | -9 | N’existe pas |
|  | 9 | -9 | N’existe pas |
|  | 9 | -9 | N’existe pas |
| 13 = |  |  |  |
| -6 = |  |  |  |

1. Encadre les racines carrées suivantes par deux nombres entiers consécutifs.

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1. Estime les racines carrées suivantes à 0,1 près.

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1. Complète le tableau suivant.

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| **a** | **b** |  |  |  |  |  |  |
| 9 | 4 |  |  |  |  |  |  |
| 49 | 25 |  |  |  |  |  |  |
| 169 | 25 |  |  |  |  |  |  |
| 25 | 16 |  |  |  |  |  |  |

Conclusion : Complète par = ou ≠

1. Simplifie les radicaux suivants.

***Série 1***

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***Série 2***

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***Série 3 (Les exercices de cette série devront être compléter après avoir fait l’exercice 8).***

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***Série 4***

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1. Simplifie les radicaux suivants. Tu dois obtenir une réponse entière.

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1. Entoure les différentes écritures du nombre donné

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| 0,1 = |  |  |  | 10-1 |
| 5 = |  |  |  | (- |
| 2 |  |  |  |  |
|  |  |  |  | 5 |
| -8 = |  | (-2)³ | -2³ | - |
| -25 = | -5² | (-5)² | 5 | 5 |

1. Réduis les sommes suivantes.

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1. Réduis les produits suivants.

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1. Distribue et réduis. Attention, avant de distribuer simplifie, si possible, les racines carrées.

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1. Pour chaque situation, une seule des quatre réponses proposées est exacte. Trouve la bonne réponse sans utiliser la calculatrice.



1. Rends les dénominateurs rationnels.

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1. Rends les dénominateurs rationnels (méthode du binôme conjugué).

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10) Calcule en utilisant les produits remarquables.

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1. Calcule en respectant les règles de priorité des opérations.

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1. Calcule la valeur numérique de l’expression 5x² - 3x + 1 si :

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x = 2

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1. Simplifie les radicaux suivants (les lettres représentent des réels positifs).

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1. Réduis les sommes suivantes (les lettres représentent des réels positifs).

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1. Réduis les produits suivants (les lettres représentent des réels positifs).

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