**Exercices supplémentaires**

1. Réduis si possible les expressions suivantes

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| 2a . 3b = ………………….. | 5x² - 3x² = ………………….. | 3b . ( -b²) = ……………………. |
| 2a . (-3b) = ……………….. | 4x – x = …………………….. | 3b – b² = ………………………. |
| -4a – 2a = …………………. | -2x² - 3x² = ………………… | -3b – b = ………………………. |
| 2a – 3b = …………………. | 3a – 2b = …………………… | - b² + 2b² = ……………………. |
| -2a + 3a = …………………. | 3b² - b² = …………………… | 4a + 4a = ………………………. |

1. Complète les égalités

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| 15a = 5a + ……………… | 6a = 6a + ……………….. | 8a² = 2a . ………………. |
| 20a = 5a . ……………… | 4a = 5a - ………………… | 10 a²b = 5ab . …………… |
| 8a = -4 . ………………. | - 4a = 4a . ………………. | 36 b² = 9 . ……………….. |

1. Réduis les expressions qui peuvent l’être

|  |  |
| --- | --- |
| 2a . ( -3b) = …………………….. | 8xy² - ax + 5 + 8ax – 3xy² = ………..……… |
| - 4a . (-2b) = ……………………. | 4a² . (-2x) . (-6x) = …………………………. |
| -4a . 2c . (-5b) = ……………….. | 5a² - 3b + 7a – a² + 5b = ……………………. |
| -4ab – 2a + 3ab – a = …………………………… | 3a . a² . 5b² . (-2x) = ………………………… |
| - 7a² - ab + 3a² + 5ab = …………………………. | ­­6a . ( - 4x) – (-8x) . 2a = ……………………. |

1. Calcule les valeurs numériques des expressions suivantes

 a = -3 b = -2 c = 4 d = 5

1. a + b + c + d =
2. ab + cd =
3. ac – bd =
4. a – c – d + b =
5. (a + b) – (c – d) =
6. (d – c) .(a – b) =
7. ac + bd =
8. a + c . b + d =
9. a . b . c . d =
10. 2a + + 4(c + d) =