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| Philipp - Melanchthon – Gymnasium Bautzen Mathematik Kl. 8**Klammerkärtchen – Binomische Formeln**

|  |  |  |
| --- | --- | --- |
|  | 64m2 – n2 | (8m – 2n)2 |
|  | 64m2 – 32mn + 4n2  | (m – 2n) (m + 2n) |
|  | m2 + 16m + 64  | (2m + 4)2 |
|  | 16 – 8m + m2  | (8m + n) (8m – n) |
|  | 16 + 16m + 4m2 | (8 + m)2 |
|  | m2 - 4n2 | (4 – m)2 |

 | Philipp - Melanchthon – Gymnasium Bautzen Mathematik Kl. 8**Klammerkärtchen – Binomische Formeln**

|  |  |  |
| --- | --- | --- |
|  | 100a2 – 80ab + 16b2  | (5b + 4a)2 |
|  | 16a2 - 25b2 | (5b + 4a) (5b – 4a) |
|  | 100b2 + 40ba + 4a2 | (10b + 2a)2 |
|  | 25a2 - 40ab + 16b2 | (5b + 4a) (4a – 5b) |
|  | 25b2 + 40ba + 16a2 | (5a – 4b)2 |
|  | 25b2 – 16a2 | (10a - 4b)2 |

 |
| Philipp - Melanchthon – Gymnasium Bautzen Mathematik Kl. 8**Klammerkärtchen – Binomische Formeln**

|  |  |  |
| --- | --- | --- |
|  | 64m2 – n2 | (8m – 2n)2 |
|  | 64m2 + 4n2 – 32mn | (m – 2n)・(m + 2n) |
|  | 16m + m2 + 64  | (2m + 4)2 |
|  | 16 + m2 – 8m | (8m + n)・(8m – n) |
|  | 16m + 16 + 4m2 | (8 + m)2 |
|  | - 4n2 + m2 | (4 – m)2 |

 | Philipp - Melanchthon – Gymnasium Bautzen Mathematik Kl. 8**Klammerkärtchen – Binomische Formeln**

|  |  |  |
| --- | --- | --- |
|  | 100a2 + 16b2 – 80ab | (5b + 4a)2 |
|  | -25b2 + 16a2 | (5b +4a)・(5b – 4a) |
|  | 40ba + 100b2 +4a2 | (10b + 2a)2 |
|  | -40ab + 25a2 + 16b2 | (5b + 4a)・(4a – 5b) |
|  | 40ba + 25b2 + 16a2 | (5a – 4b)2 |
|  | 25b2 – 16a2 | (-10a + 4b)2 |

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| Philipp - Melanchthon – Gymnasium Bautzen Mathematik Kl. 8**Klammerkärtchen – Binomische Formeln**

|  |  |  |
| --- | --- | --- |
|  | (5b + 4a)2 |  |
|  | (5b + 4a) (5b – 4a) |  |
|  | (10b + 2a)2 |  |
|  | (4a + 5b) (4a – 5b) |  |
|  | (5a – 4b)2 |  |
|  | (10a - 4b)2 |  |

 | Philipp - Melanchthon – Gymnasium Bautzen Mathematik Kl. 8**Klammerkärtchen – Binomische Formeln**

|  |  |  |
| --- | --- | --- |
|  | (8m – 2n)2 |  |
|  | (m – 2n)・(m + 2n) |  |
|  | (2m + 4)2 |  |
|  | (8m + n)・(8m – n) |  |
|  | (8 + m)2 |  |
|  | (4 – m)2 |  |

 |
| Philipp - Melanchthon – Gymnasium Bautzen Mathematik Kl. 8**Klammerkärtchen – Binomische Formeln**

|  |  |  |
| --- | --- | --- |
|  | (5b + 4a)2 |  |
|  | (5b +4a)・(5b – 4a) |  |
|  | (10b + 2a)2 |  |
|  | (5b + 4a)・(4a – 5b) |  |
|  | (5a – 4b)2 |  |
|  | (-10a + 4b)2 |  |

 | Philipp - Melanchthon – Gymnasium Bautzen Mathematik Kl. 8**Klammerkärtchen – Binomische Formeln**

|  |  |  |
| --- | --- | --- |
|  | (8m – 2n)2 |  |
|  | (m – 2n)・(m + 2n) |  |
|  | (2m + 4)2 |  |
|  | (8m + n)・(8m – n) |  |
|  | (8 + m)2 |  |
|  | (4 – m)2 |  |

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| Philipp - Melanchthon – Gymnasium Bautzen Mathematik Kl. 8**Klammerkärtchen – Binomische Formeln**

|  |  |  |
| --- | --- | --- |
|  | 4x2 -  | 0,16x2 + 1,6x + 4 |
|  | (3x + 0,4)2 | (x + 8)・(x – 8) |
|  | (0,4x + 2)2 | (x – 0,8)2 |
|  | x2 - 64 | (2x + )・(2x – ) |
|  | x2 – 1,6x + 0,64 | 25x2 – 40x + 16 |
|  | (5x – 4)2 | 9x2 + 2,4x + 0,16 |

 | Philipp - Melanchthon – Gymnasium Bautzen Mathematik Kl. 8**Klammerkärtchen – Binomische Formeln**

|  |  |  |
| --- | --- | --- |
|  | (6 + 9u)2 | (s + t)2 |
|  | (4v + 7u)・(4v – 7u) | (7v – 0,9u)2 |
|  | s2 + t2 + st | 16v2 – 56uv + 49u2 |
|  | 49v2 – 12,6uv + 0,81u2 | 36 + 108u + 81u2 |
|  | (4v – 7u)2 | 16v2 – 49u2 |
|  | -  + s2  | ( + s)・(-  + s) |

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| Philipp - Melanchthon – Gymnasium Bautzen Mathematik Kl. 8**Klammerkärtchen – Binomische Formeln**

|  |  |  |
| --- | --- | --- |
|  | (s + t)2 |  |
|  | (7v – 0,9u)2 |  |
|  | 16v2 – 56uv + 49u2 |  |
|  | 36 + 108u + 81u2 |  |
|  | 16v2 – 49u2 |  |
|  | ( + s)・(-  + s) |  |

 | Philipp - Melanchthon – Gymnasium Bautzen Mathematik Kl. 8**Klammerkärtchen – Binomische Formeln**

|  |  |  |
| --- | --- | --- |
|  | 0,16x2 + 1,6x + 4 |  |
|  | (x + 8)・(x – 8) |  |
|  | (x – 0,8)2 |  |
|  | (2x + )・(2x – ) |  |
|  | 25x2 – 40x + 16 |  |
|  | 9x2 + 2,4x + 0,16 |  |

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Gebrauchsanweisung:

Die Klammerkärtchen habe ich ausgedruckt (Vorder – und Rückseite auf ein Blatt) und laminiert.

Die Schüler erhalten die ausgedruckten und laminierten Klammerkärtchen mit jeweils 6 Büroklammern. Sie ordnen den Aufgaben die passenden Lösungen zu und markieren diese mit der jeweiligen Büroklammer. Durch die farbige Markierung auf der Rückseite können sie sich selbstständig kontrollieren.



