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|  | **Liceo delle Scienze Umane****Classe 1 UB** |  |
| Cognome e Nome |  | 2 maggio 2011 |

1. ***Eseguite le seguenti operazioni tra polinomi***

$6m^{2}+7m-17+\left(3m-7-4m^{2}\right)=$ *.....................................................................................*

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$-5ab^{2}-\left(9a+21b^{2}\right)-\left(18a-17ab^{2}-9b^{2}\right)+11b-\left(-11b\right)=$

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$$\left(21x^{2}y^{6}z^{3}\right)⋅\left(\frac{1}{42}z+\frac{1}{7}x^{2}y^{6}z^{3}-\frac{1}{3}x^{5}y^{3}z+\frac{3}{7}\right)=$$

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$\left(a+\frac{1}{5}b\right)⋅\left(\frac{5}{2}a-\frac{25}{4}b+3a\right)⋅\left(-1\right)=$ *……………………………………………………………….*

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$\left(4x-3y\right)^{2}=$ *…………………………………..............................…………………………………….*

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$\left(4x+3y\right)⋅\left(4x-3y\right)=$ *………………………………………………………………………..........*

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$\left(15x^{3}-11x^{2}-12x+78\right):\left(3x+5\right)=$

*Procedimento (algoritmo) di calcolo e uguaglianza finale*

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1. ***Calcolare il valore della seguente espressione usando i prodotti notevoli***

$$\left(x-1\right)^{2}-x\left(x-3\right)⋅ \left(x+3\right)+\left(x+2\right)⋅ \left(x-1\right)=$$

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1. ***Risolvete le seguenti equazioni***

$$-x+2=13$$

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$$4x=\frac{1}{4}$$

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$$3=\frac{3}{2}x$$

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$$2⋅\left(x-1\right)=2x-1$$

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$$5x-13=7⋅\left(2x-8\right)$$

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$$\frac{2x-3}{6}+\frac{4+3x}{5}-\frac{x-2}{4}=\frac{2x-1}{12}-\frac{3}{20}$$

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|  | **Liceo delle Scienze Umane****Classe 1 UB** |  Punti |