

Name: _____ Class Period: _____ Date: _____

A famous mathematician was upset with the mathematical inaccuracy of the poem, "The Vision of Sin". He wrote this in letter to Alfred, Lord Tennyson.

"Every minute dies a man, Every minute one is born;" I need hardly point out to you that this calculation would tend to keep the sum total of the world's population in a state of perpetual equipoise, whereas it is a well-known fact that the said sum total is constantly on the increase. I would therefore take the liberty of suggesting that in the next edition of your excellent poem the erroneous calculation to which I refer should be corrected as follows: "Every moment dies a man, And one and a sixteenth is born." I may add that the exact figures are 1.067...

Who was this mathematician?

The answers to each question are in the box below. Put the letter next to each in the spot for the question number. Show your work on a separate sheet of paper.

Perform each addition using either the horizontal or vertical method.

1. $(3x^3 + 5x^2 + 2x + 9) + (7x^3 + 2x^2 + 6x - 7)$ 4. $(3x^4 - 9x^2 - 7) + (11x^3 + 4x^2 - 3x)$

2. $(5x^4 + 7x^2 - 4) + (8x^3 - 11x^2 - 7x - 15)$ 5. $(-11x^2 - 2x) + (17x^4 + 3x^2 - 4x)$

3. $(2x^3 - 6x^2 - x - 13) + (-7x^4 - 9x^3 + 3x^2 + x)$ 6. $(-3x^4 - 4x^2 - x) + (-3x^4 + 4x^2 - 3x)$

Perform each subtraction using either the horizontal or vertical method.

7. $(6x^3 + 4x^2 + 8x + 7) - (4x^3 + 3x^2 + 6x + 1)$ 10. $(-5x^4 + 9x^2 - 3x) - (3x^3 + 4x^2 - 11)$

8. $(9x^4 + 3x^3 + 7x + 2) - (7x^4 + x^3 + 3x^2 + 5)$ 11. $(-3x^3 + 4x^2 - x) - (5x^4 + 8x - 13)$

9. $(7x^3 - 5x^2 + 4x + 8) - (2x^3 - 6x^2 + 3x + 6)$ 12. $(-9x^4 - 3x^2 - 8x) - (-9x^4 + 7x^3 + 2x^2)$



1791-1871

Mathematician - came up with the idea of a programmable computer.

B: $-7x^3 - 5x^2 - 8x$	A: $-7x^4 - 7x^3 - 3x^2 - 13$	L: $2x^4 + 2x^3 - 3x^2 + 7x - 3$
E: $2x^3 + x^2 + 2x + 6$	S: $-6x^4 - 4x$	R: $3x^4 + 11x^3 - 5x^2 - 3x - 7$
G: $5x^3 + x^2 + x + 2$	C: $-5x^4 - 3x^3 + 4x^2 - 9x + 13$	H: $5x^4 + 8x^3 - 4x^2 - 7x - 19$
E: $10x^3 + 7x^2 + 8x + 2$	A: $-5x^4 - 3x^3 + 5x^2 - 3x + 11$	B: $17x^4 - 8x^2 - 6x$

11 2 10 4 8 1 6 12 10 12 5 3 9 7

For help with this worksheet go to Mathops.com Section 14 Lesson 2.

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