



TIEC__ DEMO__ Math

1. $(a^4d^5t^3)(2at) - 8a^5d^5t^4$ is equal to
 - $10a^5d^5t^4$
 - $-6a^5d^5t^4$
 - $6a^5d^5t^4$
 - $6^4d^5t^3$

2. The equation $3(x - 5) - 8 = 4(x + 5) - 16$
 - has the solution $x = 35$
 - has the solution $x = 27$
 - has the solution $x = -27$
 - is impossible

3. The equation $6^{2x}/6^{6x} = 1$ has the solution
 - $x = 0$
 - $x = -4$
 - $x = -1/4$
 - $x = 1/4$

4. The inequality $(5x + 4) / (5 - 2x) \leq 0$ holds for
 - $x \leq -4/5 \vee x > 5/2$
 - $x \leq -4/5 \vee x \geq 5/2$
 - $-4/5 \leq x \leq 5/2$
 - $-4/5 < x < 5/2$

5. $(2a - c)^2$ is equal to
 - $4a^2 + c^2 + 4ac$
 - $4a^2 - c^2 - 4ac$
 - $4a^2 - c^2 + 4ac$
 - $4a^2 + c^2 - 4ac$

6. The lines $y = 9x + 2$ e $y + 9x - 6 = 0$ intersect at
 - $(-2/9 ; -4)$
 - $(2/9 ; -4)$
 - $(2/9 ; 4)$
 - $(-2/9 ; 4)$



7. The parabola $y = x^2 - 3x - 18$
- intersects the x-axis in $(-3;0)$
 - intersects the y-axis in $(0;18)$
 - does not intersect the x-axis
 - does not intersect the y-axis
8. The equation of a circle centered at $(16, -14)$ with radius 2 is:
- $(x - 16)^2 + (y + 14)^2 = 4$
 - $(x+16)^2 + (y - 14)^2 = 4$
 - $(x - 16)^2 - (y - 14)^2 = 2$
 - $(x+16)^2 + (y - 14)^2 = 2$
9. The equation $(x - 5)^2 - 4x(5 - x) = 0$ has the solutions
- $x = 1 \vee x = 5$
 - $x = -5 \vee x = -1$
 - $x = -1 \vee x = 5$
 - $x = 0 \vee x = 5$
10. If $A \cap B = A$, then
- $B = \emptyset$
 - $B = \{0\}$
 - $A \subseteq B$
 - $B \subset A$
11. The equality $\log_2(x + 10) = 1$ holds for
- $x = -8$
 - $x = 12$
 - $x = 8$
 - $x = 2$
12. $[(1/10)^8 : (1/10)^6]^{14} =$
- 10^{28}
 - $(1/10)^{21}$
 - $(1/10)^{28}$
 - 10^{21}