

Algebra 8 Midyear Most Missed Problems

Short Answer Directions: Show all thinking and box/circle your final answer.

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| <p>1 What is the y-intercept of the line represented by the equation : $3x - 4y = 48$</p> | <p>3 Write an equivalent equation in $y = mx + b$ form for the equation $4x - 7y = 28$</p> |
| <p>2 Hot chocolate is poured into a cup and then left to cool. The decrease in temperature over time is approximately exponential. If the hot chocolate is $185^{\circ}F$ after 1 minute, and $155^{\circ}F$ after two minutes, then what is the approximate <u>decay rate</u> to the nearest percent for this situation?</p> | <p>4 Solve the inequality : $\frac{x}{-20} - 17 \geq 10$</p> |
| | <p>5 Find the product: $\left(4x^6\right)\left(-8x^5\right)^2$</p> |