 Name _____ Date _____ Per _____

ALGEBRA 2 · CLASSWORK · SPECIAL ED

Rewrite a Formula

SCORE / 25

01 Part A · Practice

Rewriting a formula to solve for another variable gives the inverse function: undo the operations in reverse order and keep the root that fits the situation.

EXAMPLE

Rewrite $A = \pi r^2$ for r.

1. Divide by π: $r^2 = \dfrac{A}{\pi}$.

2. Take the positive root: $r = \sqrt{\dfrac{A}{\pi}}$.

WORDS TO KNOW

formula	a rule relating quantities
inverse formula	the formula solved for the other variable
positive root	used for lengths and times

1 ●○○

Solve $y = 3x^2 + 7$ for x, with $x \geq 0$.

HINT Undo the adding, then the multiplying, then the square.

2 ●○○

The formula for the falling distance is $d = 16t^2$. Write the inverse formula: solve for t ($t \geq 0$).

HINT Isolate the power of the variable, then take the matching root.

3 ●○○

Solve $y = 5x^3 - 3$ for x.

HINT Isolate x^3, then take the cube root.

4 ●○○

Solve $P = 10h + 19$ for h.

HINT Undo + first, then ×.

© 2026 Math Teacher Prints · 5-6f Classwork · Special Ed

Preview - the full worksheet and its answer key are at primeworksheet.com