ALGEBRA 2 · HOMEWORK

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.

1 ●○○ The formula for the kinetic energy is $E = \frac{1}{2}mv^2$. Write the inverse formula: solve for v ($v \geq 0$).

2 ●○○ Solve $E = 4v^2 - 8$ for v, with $v \geq 0$.

3 ●○○ Solve $C = 7n + 8$ for n.

4 ●○○ Solve $y = 6x^3 + 1$ for x.

5 ●○○ The formula for the area of a circle is $A = \pi r^2$. Write the inverse formula: solve for r ($r \geq 0$).

6 ●○○ Solve $E = 4v^2 + 2$ for v, with $v \geq 0$.

7 ●○○ Solve $y = 4x^3 + 5$ for x.

8 ●○○ Solve $T = 2m + 42$ for m.

9 ●○○ Solve $C = 11n + 4$ for n.

10 ●○○ Solve $y = 4x^3 + 9$ for x.

PREVIEW

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