

Math 101, Littlefield

Homework: Solving Equations (First Set)

Solve the following equations:

1. $d = rt$ for t (distance/rate/time)
2. $A = bh$ for b (area of a parallelogram)
3. $P = a + b + c$ for b (perimeter & sides of a triangle)
4. $A = \frac{1}{2}bh$ for h (area of a triangle)
5. $S = 2\pi rh + 2\pi r^2$ for h (surface area of a right circular cylinder)
6. $A = \frac{1}{2}h(b + B)$ for B (area of a trapezoid)
7. $r = \frac{4.3 - AiR}{i}$ for A (electronics)
8. $\frac{1}{f} = \frac{1}{o} + \frac{1}{i}$ for f (photography)

For problems 4-8, show at least 2 intermediate steps in the solution process.

The answers to these problems must be written as equations involving letters.

For example if you're told that " $V = Ah$, solve for h ", then the proper answer is $h = \frac{V}{A}$.

You can check your solutions by plugging in numbers, but that's not a required part of this homework.