

Name _____

Period _____

Solving Equations Review Show Your Work!

1. Solve for r . $A = 2\pi r$

2. Solve for h . $Q = \pi r^2 h$

3. Solve for m . $y = 7m + 6$

4. Solve for b . $y = mx + b$

5. Solve for r . $A = p + 7r$

6. Solve for z . $A = (z + k)w$

6. Solve for x . $\frac{x+2}{k} = 4$

8. Solve for y . $\frac{x+2y}{k} = 4$

9. Solve for x . $y = mx + b$

10. Solve for y . $Ax + By = C$

Solving Equations and Justify each Step!

Solve each equation for x. Provide the justifications for each step. See the first example as a reminder for the types of justifications that might be used.

Example:

$3x - 6 = 15$	Justification
$\quad +6 \quad +6$	Addition
$\frac{3x}{3} = \frac{21}{3}$	Property of equality
$x = 7$	Division Property of equality

11.

$4x - 10 = 2$	Justification

12.

$-24 = 3(x + 4)$	Justification

13.

$2(3 - x) = 40$	Justification

14.

$3(2x + 1) = x + 18$	Justification

15.

$3x - 10 = 2(x + 6)$	Justification

16.

$12x + 3y = 15$	Justification

17.

$X(B + 7) = 9$	Justification