

Name: _____

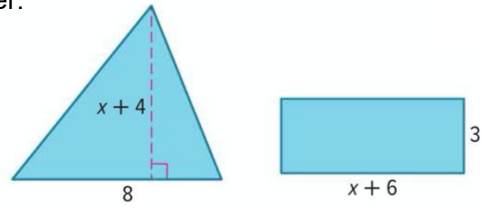
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HW # 10a: Algebra 1 - Standard 5 - Solve Equations with Variable on Both Sides of Equal Sign

5 points

Solve each equation. Show the work that justifies your answer.

- 22. GEOMETRY** Write and solve an equation to find the value of x so that the figures have the same area.



Solve each equation and state whether the equation has *one solution*, *no solution*, or is an *identity*.

25. $-6y - 3 = 3 - 6y$

27. $8q + 12 = 4(3 + 2q)$

29. $12y + 48 - 4y = 8(y - 6)$

31. $2a + 2 = 3(a + 2)$

33. $7(c + 9) = 7c + 63$

35. $3b - 13 + 4b = 7b + 1$