

Solving Equations

A2

Copy problems onto your own paper and show work.

Solve for x. Give answers in simplest form—no decimals.

1. $-4(3 - x) + 6 = 2(x - 3)$

2. $2(x+1) = 4 - 3(2x+1)$

3. $3(1 - x) - (3+x) = 8$

4. $2(x+1) - 3(x+7) = 2$

5. $6(2x - 1) + 3 = 6(2 - x) - 1$

6. $\frac{3}{4}(2x+8) = 5 - x$

7. $\frac{1}{5}\left(\frac{5}{2}x - 10\right) = 4(x+3)$

8. $-3.6x + 3.1 = 3(5.2 - 1.2x)$

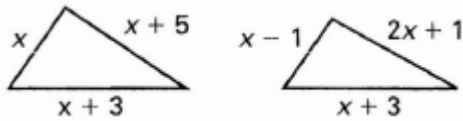
9. $\frac{2}{3}\left(3x + \frac{6}{5}\right) = \frac{1}{5}(5x - 1)$

10. $5x - 2(3 - x) = -(4 - x)$

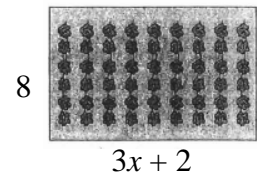
11. $1.5(4x - 2) = 2(0.5x - 3.5)$

Write an equation and show work to solve each problem.

12. The two triangles have equal perimeters.
Find the lengths of all sides.



13. The garden has an area of 136 ft^2 . If you want to put a fence around the entire garden, how much fencing will you need?



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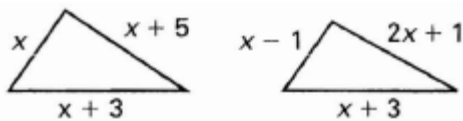
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