

Chapter 2 Review**Solve each equation.**

1) $7(4x + 7) + 8 = -x - 1$

2) $8(-7m + 1) = 8 + 3m$

3) $-12(r - 1) = -(r + 10)$

4) $6(-6n + 11) - 11(n + 2) = -7n + 4n$

Solve the system of equations. Show all work!

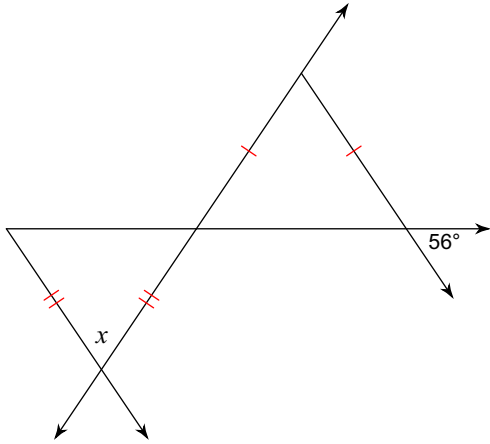
5) $y = 2x + 6$
 $y = \frac{1}{2}x - 8$

6) $y = 15x - 8$
 $2x + 8y = 22$

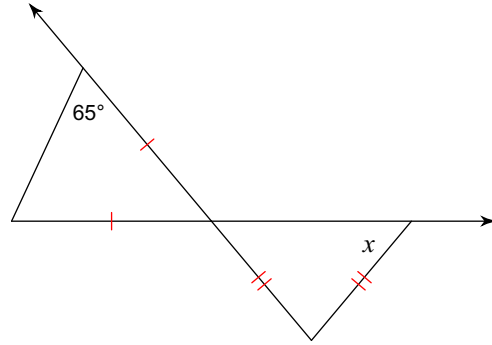
7) $x = 5 + 7y$
 $4x - y = 14$

Find the value of x .

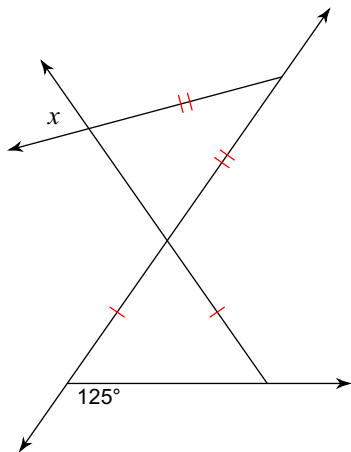
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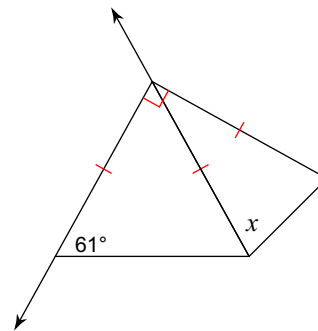
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10)

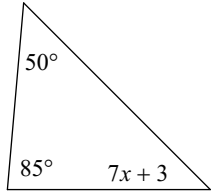


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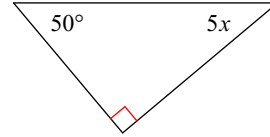


Solve for x .

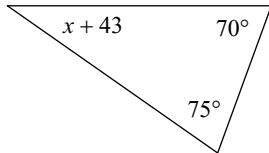
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13)

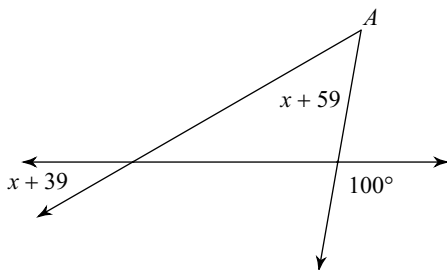


14)



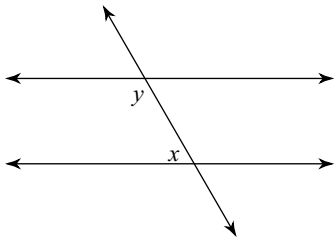
Find the measure of angle A.

15)

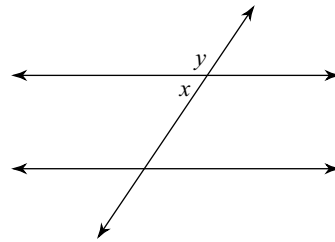


Identify each pair of angles as corresponding, alternate interior, same-side interior, vertical, or adjacent.

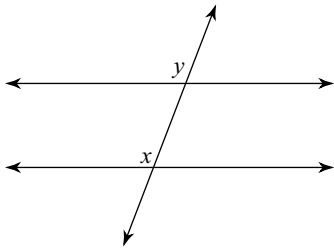
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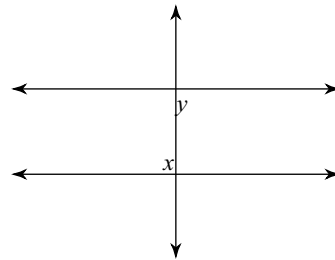
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18)

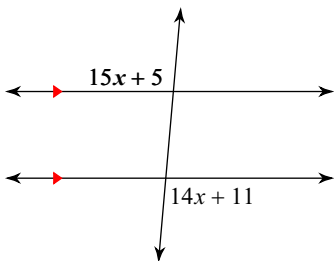


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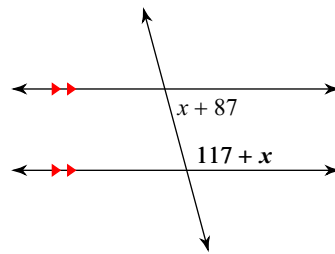


Find the measure of the angle indicated in bold. State the angle relationship(s) used to help you.

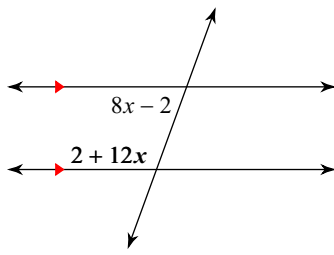
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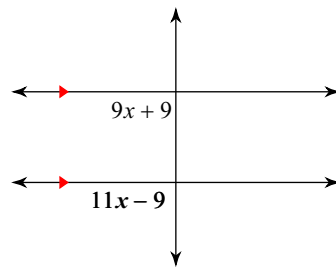
21)



22)

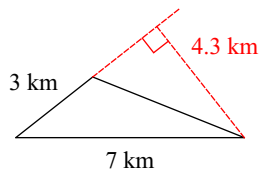


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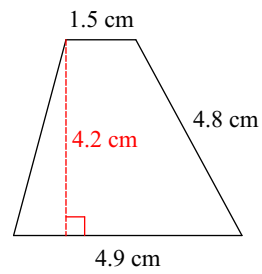


Find the area of each.

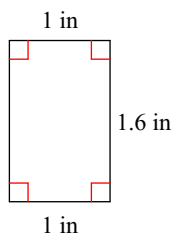
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25)

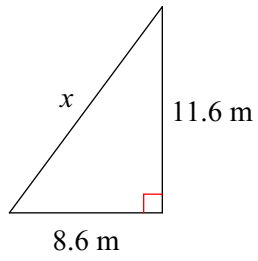


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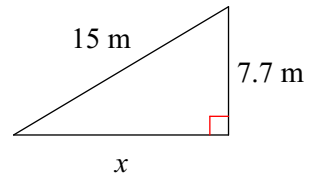


Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

27)

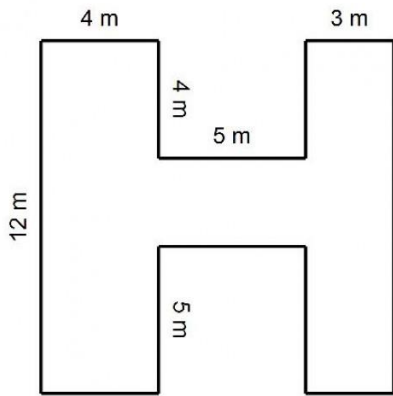


28)

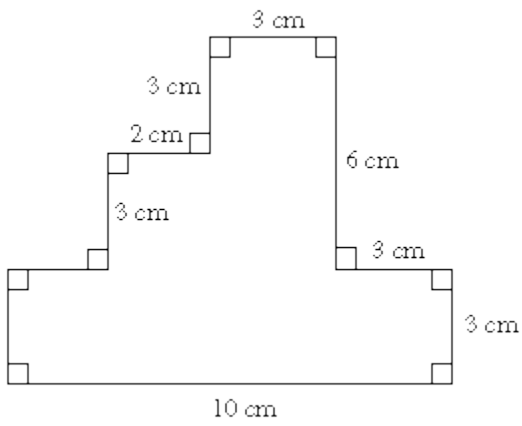


Find the area of the following shapes. Use proper units and show all work.

29.



30.



31. Find the area of the shaded region.

