

Name: \_\_\_\_\_ ANSWER KEY \_\_\_\_\_ Hour: \_\_\_\_\_ Date: \_\_\_\_\_

# “Why Don't You Want To Cross A Lawyer With A Crab?” (Properties of Trapezoids Practice)

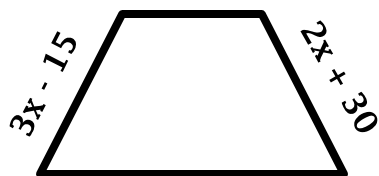
**Directions:** Solve each problem to find the value of  $x$  given that the quadrilateral is an isosceles trapezoid. Find its matching answer in the answer box and decode the answer to the riddle using the letter of the answer associated with each question. Show all of your work.

**Answer:**

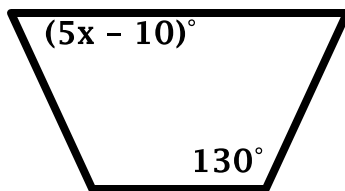
B E C A U S E    Y O U ' L L    G E T  
 9 2 6 3 1 7 2    8 11 1    10 10    12 2 13

S N A P P Y    A N S W E R S !  
 7 4 3 5 5 8    3 4 7 14 2 15 7

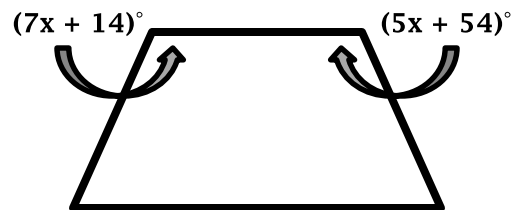
1.  $x =$  \_\_\_\_\_  $x = 45$



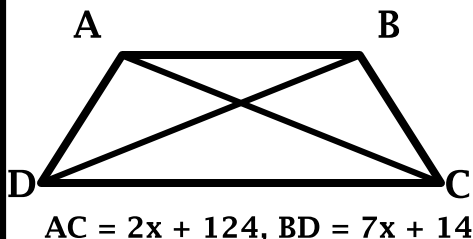
2.  $x =$  \_\_\_\_\_  $x = 12$



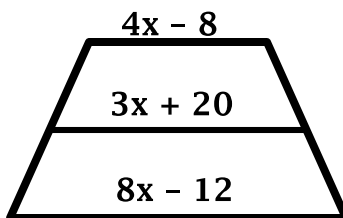
3.  $x =$  \_\_\_\_\_  $x = 20$



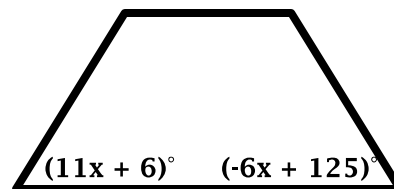
4.  $x =$  \_\_\_\_\_  $x = 22$



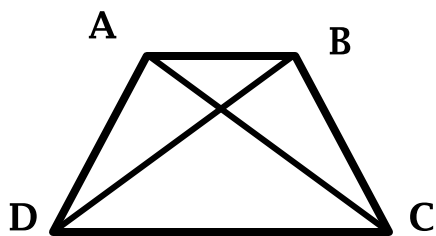
5.  $x =$  \_\_\_\_\_  $x = 10$



6.  $x =$  \_\_\_\_\_  $x = 7$

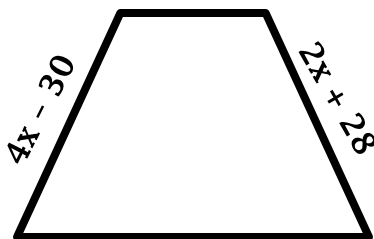


7.  $x = \underline{\quad}$   $x = 3$

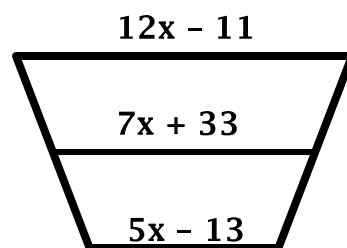


$AC = 8x - 4$ ,  $BD = 3x + 11$

8.  $x = \underline{\quad}$   $x = 29$



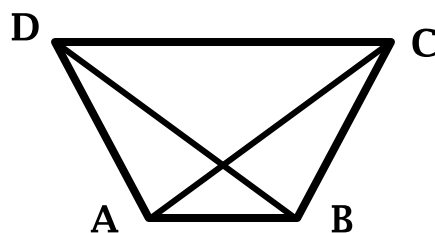
9.  $x = \underline{\quad}$   $x = 30$



10.  $x = \underline{\quad}$   $x = 2$

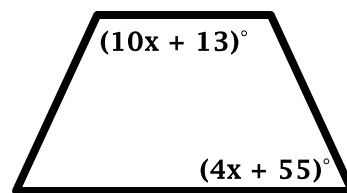


11.  $x = \underline{\quad}$   $x = 11$

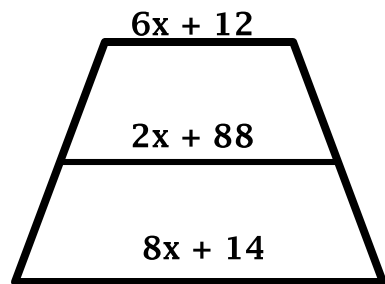


$AC = 2x + 14$ ,  $BD = 6x - 30$

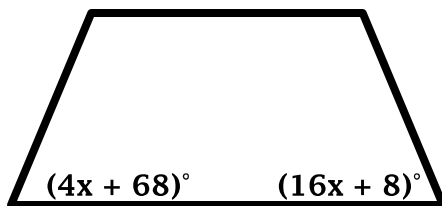
12.  $x = \underline{\quad}$   $x = 8$



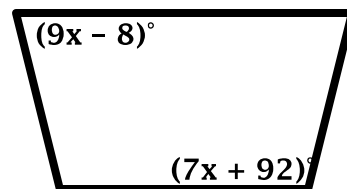
13.  $x = \underline{\quad}$   $x = 15$



14.  $x = \underline{\quad}$   $x = 5$



15.  $x = \underline{\quad}$   $x = 6$



**Answer Box:**

A $x = 20$	B $x = 30$	C $x = 7$	E $x = 12$	G $x = 8$
L $x = 2$	N $x = 22$	O $x = 11$	P $x = 10$	R $x = 6$
S $x = 3$	T $x = 15$	U $x = 45$	W $x = 5$	Y $x = 29$

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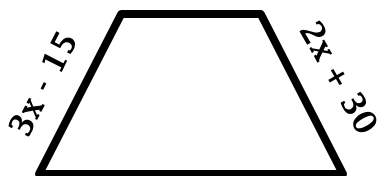
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**Answer:**

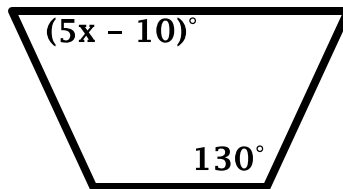
9 2 6 3 1 7 2      8 11 1 10 10      12 2 13

7 4 3 5 5 8      3 4 7 14 2 15 7

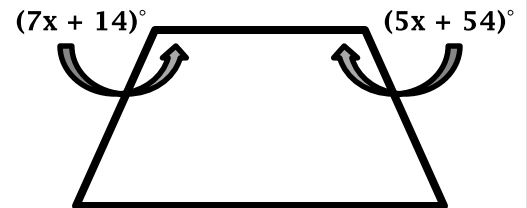
1.  $x =$  \_\_\_\_\_



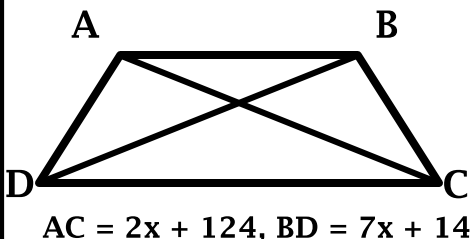
2.  $x =$  \_\_\_\_\_



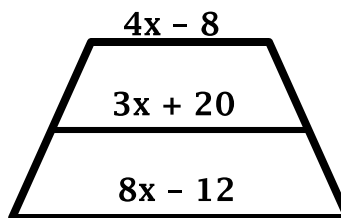
3.  $x =$  \_\_\_\_\_



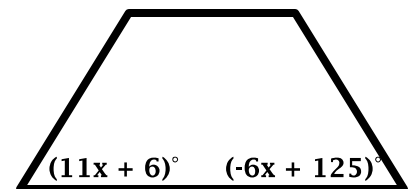
4.  $x =$  \_\_\_\_\_



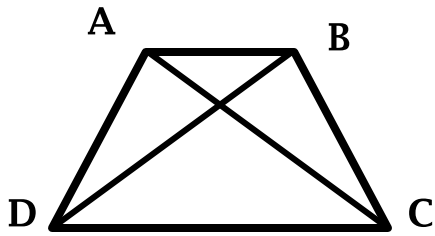
5.  $x =$  \_\_\_\_\_



6.  $x =$  \_\_\_\_\_

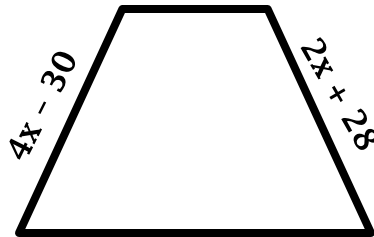


7.  $x =$  \_\_\_\_\_

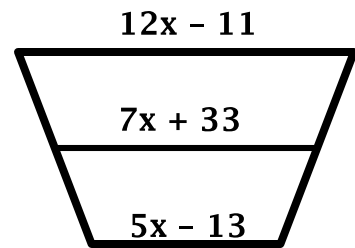


$AC = 8x - 4$ ,  $BD = 3x + 11$

8.  $x =$  \_\_\_\_\_



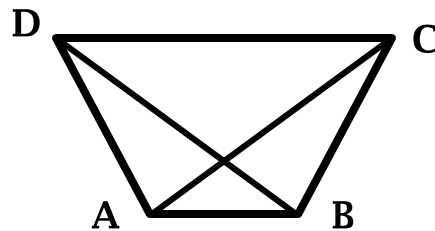
9.  $x =$  \_\_\_\_\_



10.  $x =$  \_\_\_\_\_

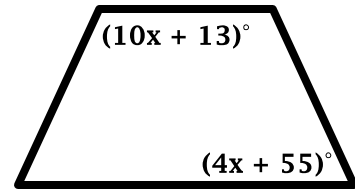


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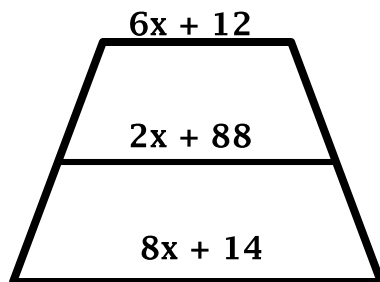


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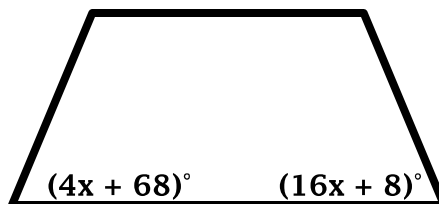
12.  $x =$  \_\_\_\_\_



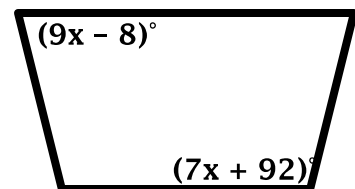
13.  $x =$  \_\_\_\_\_



14.  $x =$  \_\_\_\_\_



15.  $x =$  \_\_\_\_\_



**Answer Box:**

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