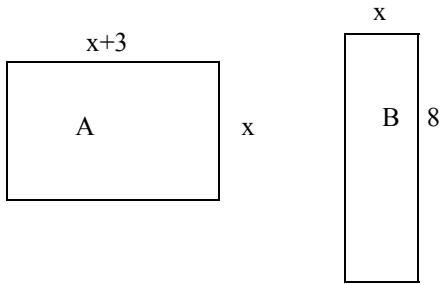
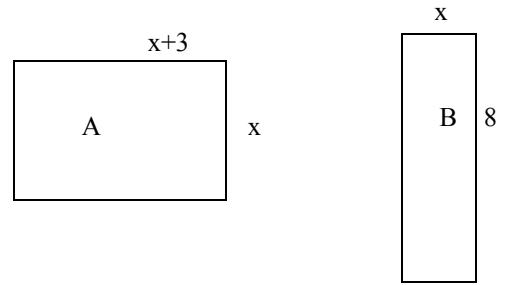


1 If the area of the 2 rectangles is the same, find the dimensions of each.



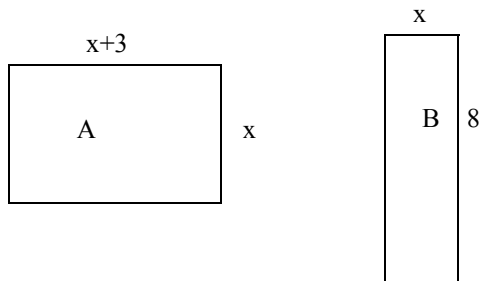
1 If the area of the 2 rectangles is the same, find the dimensions of each.



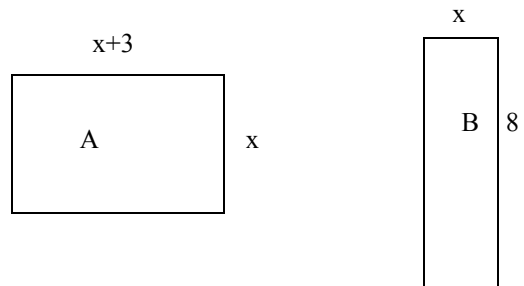
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2 If $f(x) = 7x - 26$, find $f(f^{-1}(4))$.

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CODE:

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ANSWER:

3 Simplify with positive exponents only:

$$\left(\frac{y^{-1} - x^{-1}}{y^{-2} - x^{-2}}\right)\left(\frac{1}{x}\right)^0.$$

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CODE:

ANSWER:

4 What is the minimum value that the expression $|x - 4| - 5$ can attain?

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CODE:
ANSWER:

5 Find the sum of the roots for
 $x(x+1) - 5(x+1) = 0$.

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CODE:
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ANSWER:

6 Define $a \odot b = a^2 + b^2$, find $2.4 \odot 7.6$.

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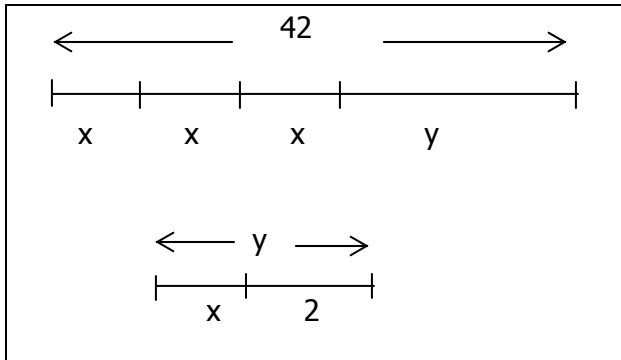
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CODE:
ANSWER:

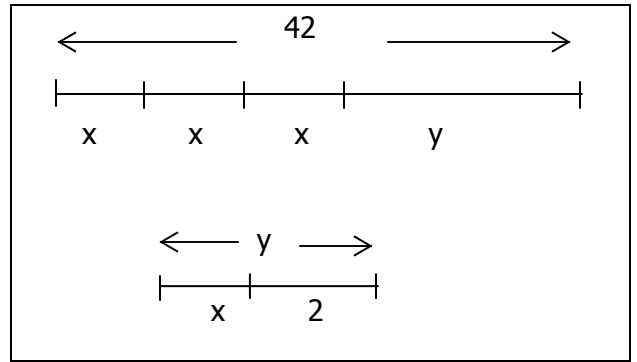
CODE:
ANSWER:

7 Use the diagrams to solve for x .



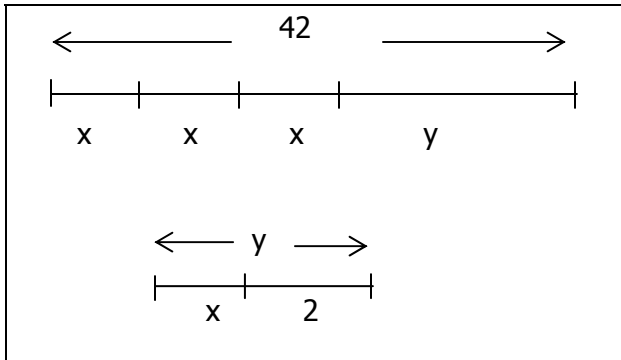
CODE:
ANSWER:

7 Use the diagrams to solve for x .



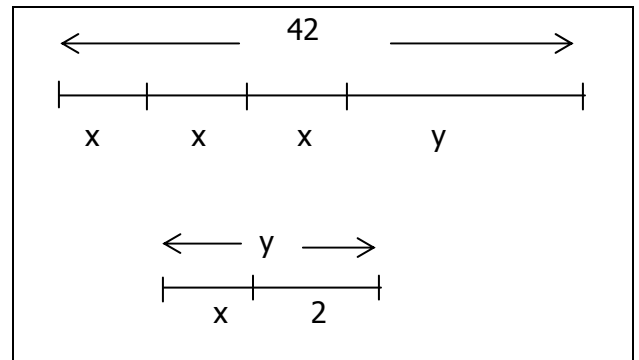
CODE:
ANSWER:

7 Use the diagrams to solve for x .



CODE:
ANSWER:

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CODE:
ANSWER:

8 Simplify and solve for x :

$$5|x-5|+6|x-5|-3|x-5|=40$$

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CODE:

ANSWER:

CODE:

ANSWER:

8 Simplify and solve for x :

$$5|x-5|+6|x-5|-3|x-5|=40$$

8 Simplify and solve for x :

$$5|x-5|+6|x-5|-3|x-5|=40$$

CODE:

ANSWER:

CODE:

ANSWER:

9 Solve for x :

$$(x^2 - x)^2 - 26(x^2 - x) + 120 = 0$$

9 Solve for x :

$$(x^2 - x)^2 - 26(x^2 - x) + 120 = 0$$

CODE:

ANSWER:

CODE:

ANSWER:

9 Solve for x :

$$(x^2 - x)^2 - 26(x^2 - x) + 120 = 0$$

9 Solve for x :

$$(x^2 - x)^2 - 26(x^2 - x) + 120 = 0$$

CODE:

ANSWER:

CODE:

ANSWER:

10 Simplify:

$$16x - 3[2x - (7 - 2x) - 5(x + 1) + 7]$$

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10 Simplify:

$$16x - 3[2x - (7 - 2x) - 5(x + 1) + 7]$$

CODE:

ANSWER:

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ANSWER:

11 Give the exact roots for x :
 $2x^2 - 5x + 1 = 0$.

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CODE:
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CODE:
ANSWER:

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ANSWER:

12 Multiply:

$$(x + 6y)(x^2 - 6xy + 36y^2)$$

12 Multiply:

$$(x + 6y)(x^2 - 6xy + 36y^2)$$

CODE:

ANSWER:

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CODE:

ANSWER:

CODE:

ANSWER:

13 Two forestry stations are located at $F_1(-5, -2)$ and $F_2(9, 5)$. Which station is closest to a fire located at $(-3, 9)$?

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CODE:
ANSWER:

14 The lines $\frac{4x-2y}{3} = 3$ and $3x + y = 2 + kx$ are parallel. Find the value of k .

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CODE:
ANSWER:

CODE:
ANSWER:

15 Simplify: $(12+i)^2 - (i-12)^2$

15 Simplify: $(12+i)^2 - (i-12)^2$

CODE:
ANSWER:

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CODE:
ANSWER:

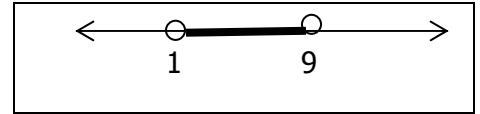
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ANSWER:

16 Write an absolute value inequality for the graph.



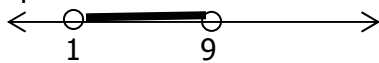
CODE:
ANSWER:

16 Write an absolute value inequality for the graph.



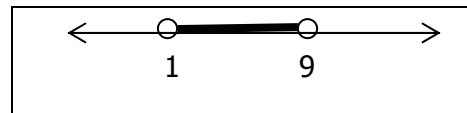
CODE:
ANSWER:

16 Write an absolute value inequality for the graph.



CODE:
ANSWER:

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CODE:
ANSWER:

17 Simplify completely: $\frac{(6^{2x+y})(6^y)}{6^{2y}}$

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CODE:

ANSWER:

CODE:

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18 Which of the following has the smallest value?

$$27^{-\frac{2}{3}}, 216^{\frac{2}{3}}, 16^{-\frac{5}{4}}, 64^{-\frac{1}{6}}$$

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CODE:

ANSWER:

19 If $p^2 + q^2 = 5$ and $pq = -2$, find the positive value of $p - q$.

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CODE:
ANSWER:

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ANSWER:

20 Three sides of a triangle have sides $7x^2 + 6x - 10$, $15x^2 - 8x + 9$ and $4x^2 + 12x - 6$. Find the perimeter of the triangle.

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CODE:

ANSWER:

CODE:

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21 Solve for x:

$$5(3c - x) - (2c - x) = 7x + 2c.$$

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CODE:

ANSWER:

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ANSWER:

22 Write an equation in standard form of the line that passes through the points $(-6,6)$ and $(9,1)$.

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CODE:

ANSWER:

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ANSWER:

23 The slope of the line perpendicular to the line represented by $6x - 14y = 28$ is ?

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CODE:
ANSWER:

CODE:
ANSWER:

24 Solve for x: $6 - (3 + x) < 8 - 2x$

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CODE:
ANSWER:

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ANSWER:

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CODE:
ANSWER:

CODE:
ANSWER:

25 If $f(x) = -3x + 1$ and $g(x) = 2x^2$,
find $(f \circ g)(x)$.

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