

LESSON

**5-8**

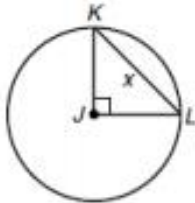
**Challenge**

**Applying Properties of Special Right Triangles**

Use the properties of special right triangles to solve each problem.

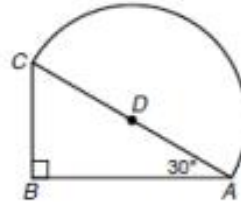
Give your answers in simplest radical form.

1. The circumference of circle  $J$  is  $14\pi$ .  
What is the value of  $x$ ?



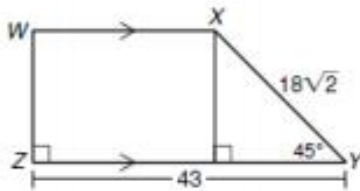
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2. The area of semicircle  $D$  is  $18\pi$ . What is the perimeter of  $\triangle ABC$ ?



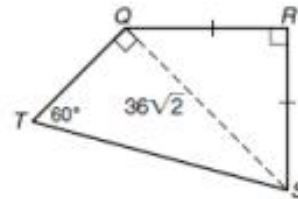
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3. Find the perimeter of quadrilateral  $WXYZ$ .



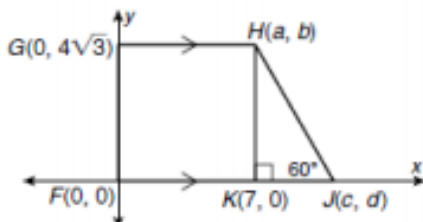
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4. Find the perimeter of quadrilateral  $QRST$ .



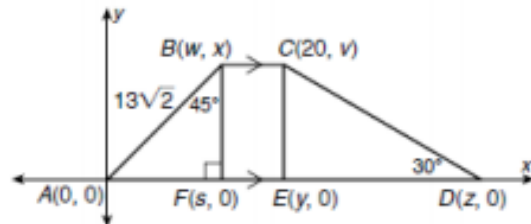
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5. Find  $a$ ,  $b$ ,  $c$ , and  $d$ .



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6. Find  $w$ ,  $x$ ,  $y$ , and  $z$ .



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