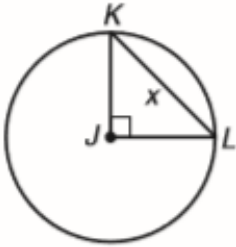


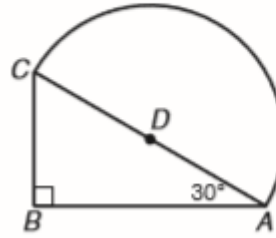
## Special Right Triangles Challenge Problems

Use the properties of special right triangles to solve each problem. Give all answers in simplest radical form.

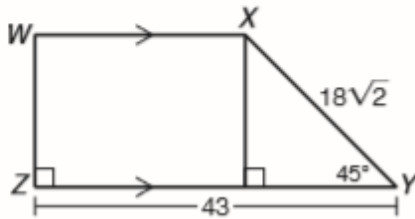
1. The circumference of circle  $J$  is  $14\pi$ . What is the value of  $x$ ?



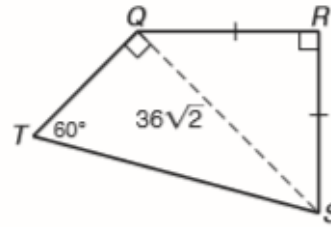
2. The area of semicircle  $D$  is  $18\pi$ . What is the perimeter of  $\triangle ABC$ ?



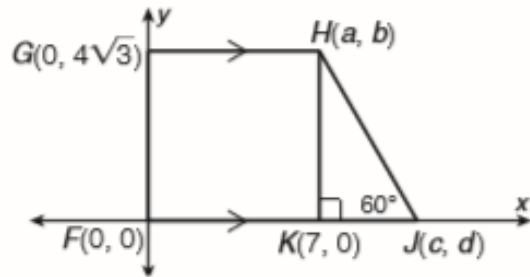
3. Find the perimeter of quadrilateral  $WXYZ$ .



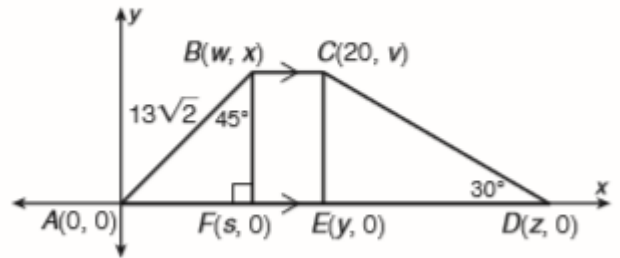
4. Find the perimeter of quadrilateral  $QRST$ .



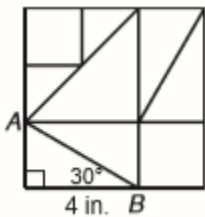
5. Find  $a$ ,  $b$ ,  $c$ , and  $d$ .



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



7. Find the length of  $\overline{AB}$ .



8. Find the value of  $x$ .

