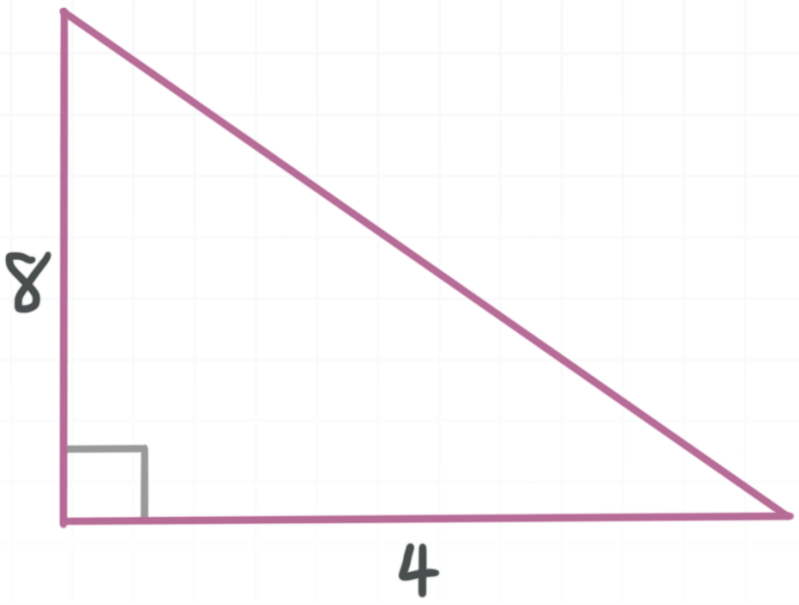
Geometry Workbook

Pythagorean theorem

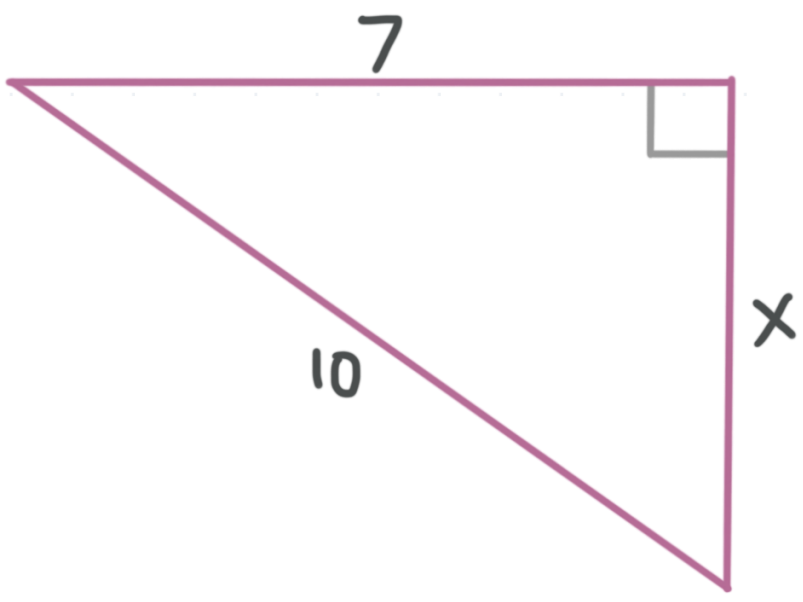
krista king
MATH

PYTHAGOREAN THEOREM

1. Find the exact length of the hypotenuse.

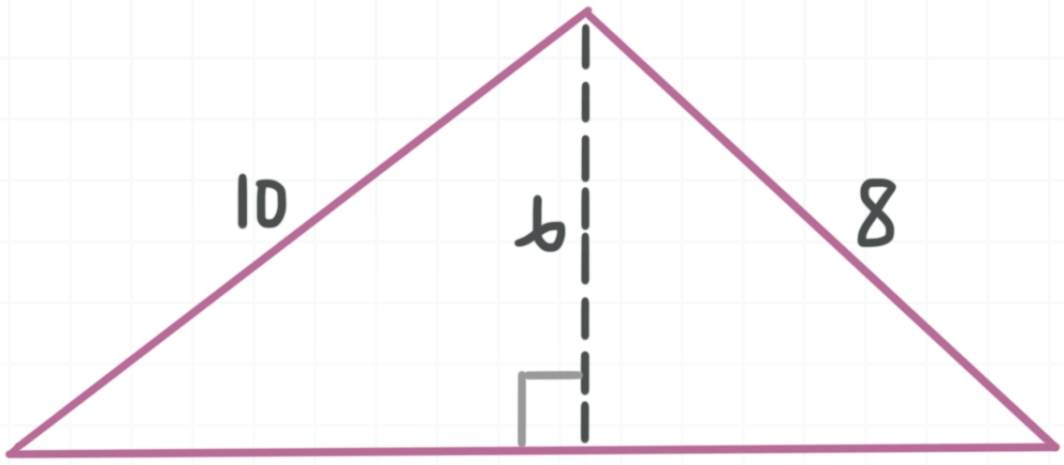


2. Find the exact length of the missing leg.



3. Find the length of the diagonal of a rectangle with length 14 and width 8.

4. Find the perimeter of the triangle to the nearest tenth.



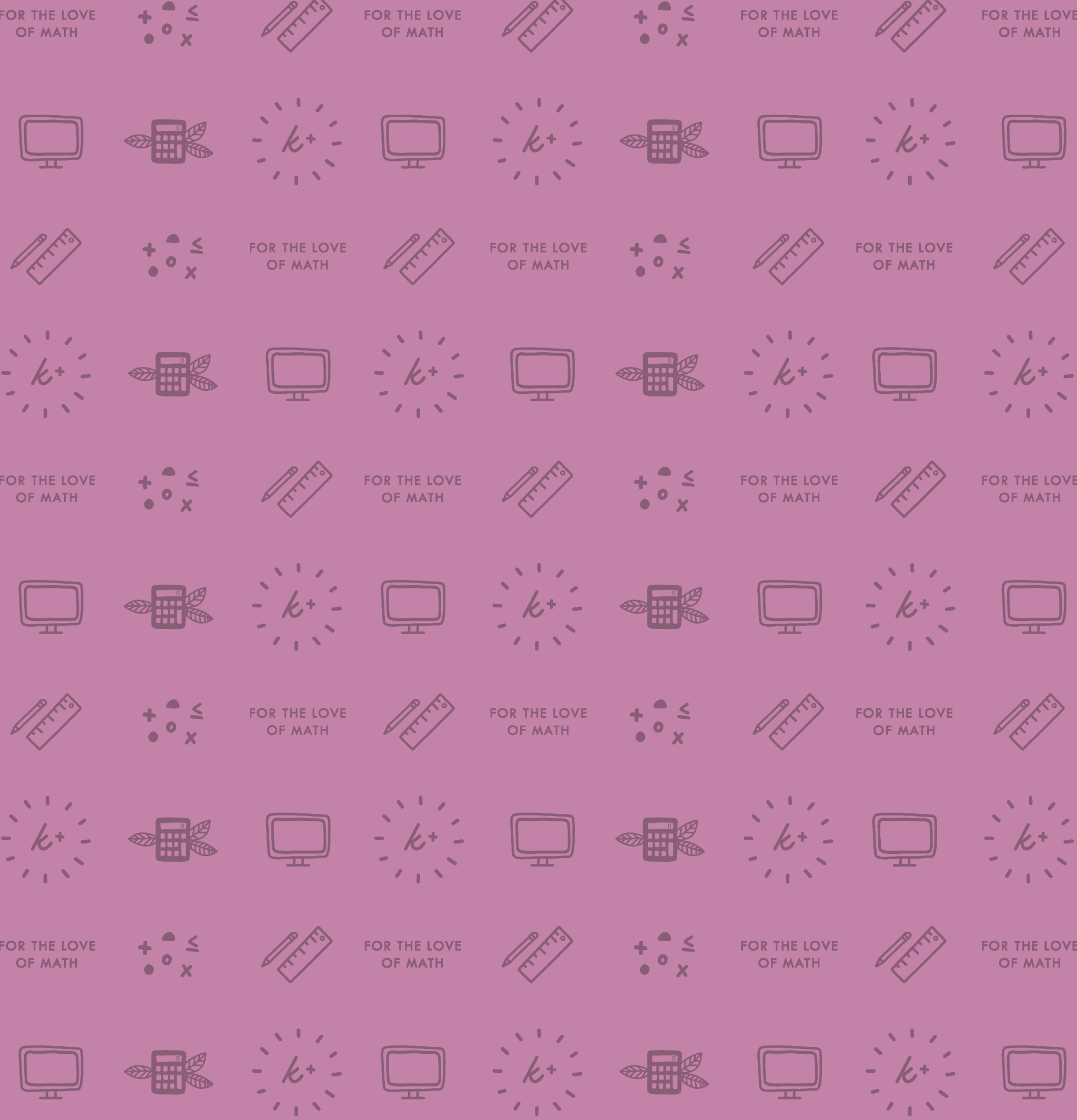
PYTHAGOREAN INEQUALITIES

■ 1. The side lengths of a triangle are 10, 14, and 15. Determine whether the triangle is obtuse, acute, or right.

■ 2. The side lengths of a triangle are 7, 18, and 12. Determine whether this triangle is obtuse, acute, or right.

■ 3. A triangle's two shortest sides have lengths 8 and 6. Let x be the length of the third side. Give a compound inequality that represents all possible lengths of the third side, ensuring that the triangle is acute.

■ 4. The side lengths of a triangle in ascending order are x, $x + 2$, and 10. Find the value of x such that this is a right triangle.



WWW.KRISTAKINGMATH.COM