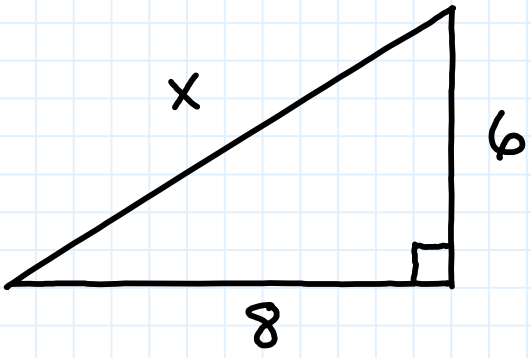
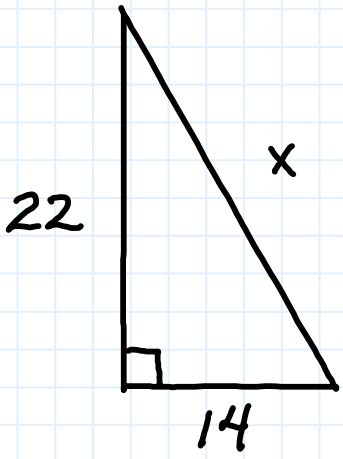
Pythagorean Theorem

Overview of problems

Example Set: A

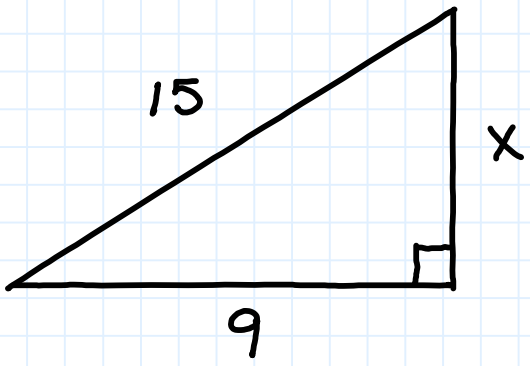
Find the missing length in each right triangle

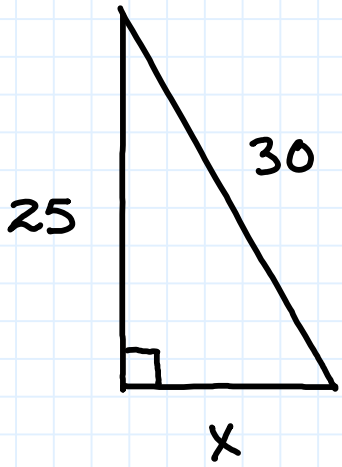




Example Set: B

Find the missing length in each right triangle





Example Set: C

Given the lengths of sides determine if each triangle is a right triangle

$a = 5$ $b = 12$ $c = 13$

$a = \sqrt{63}$ $b = 23$ $c = 25$

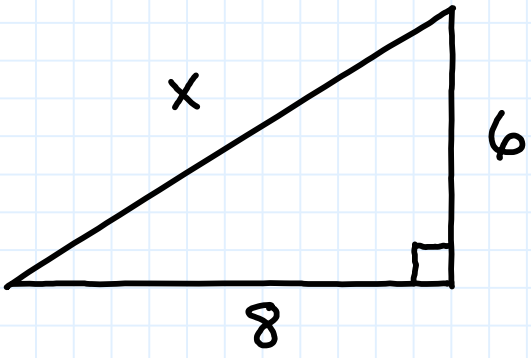
$a = \sqrt{82}$ $b = 41$ $c = \sqrt{1561}$

Pythagorean Theorem

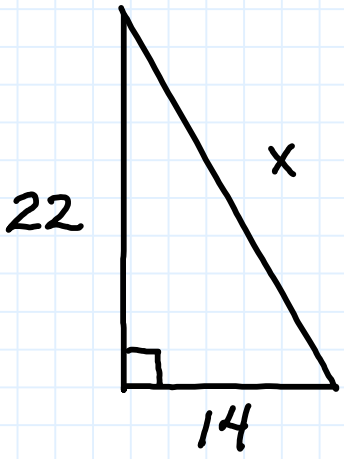
Overview of problems- KEY

Example Set: A

Find the missing length in each right triangle



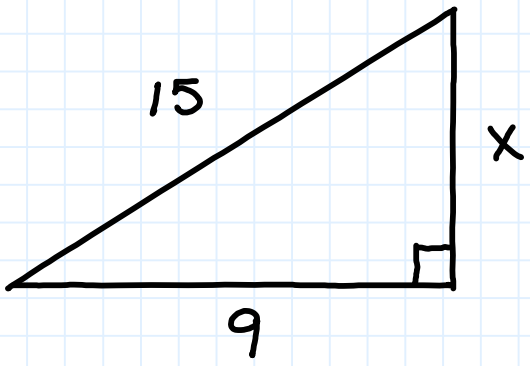
x = 10



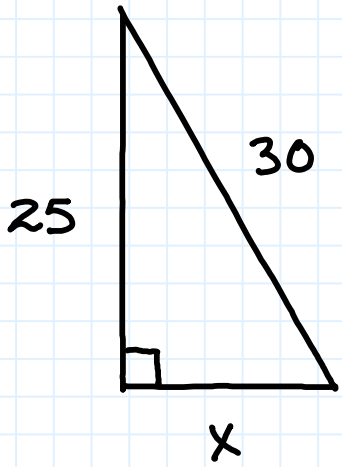
x = 26.07

Example Set: B

Find the missing length in each right triangle



$x = 12$



$x = 16.58$

Example Set: C

Given the lengths of sides determine if each triangle is a right triangle

$a = 5 \quad b = 12 \quad c = 13$ Yes, RT. Triangle

$a = \sqrt{63} \quad b = 23 \quad c = 25$ Not RT. Triangle

$a = \sqrt{82} \quad b = 41 \quad c = \sqrt{1561}$ Not RT. Triangle