

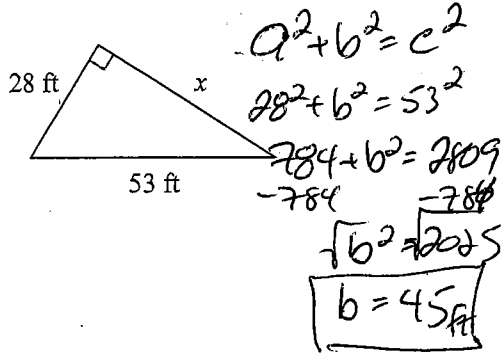
Pythagorus

Name _____

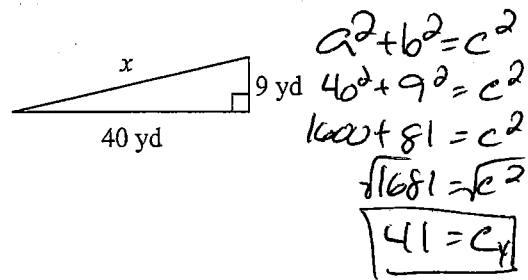
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Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

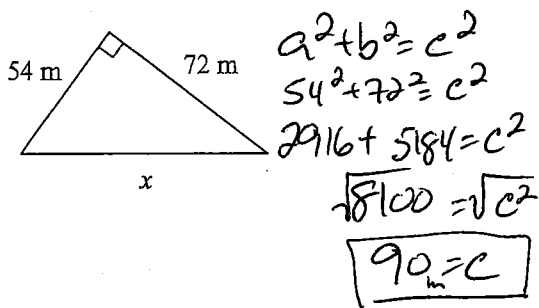
1)



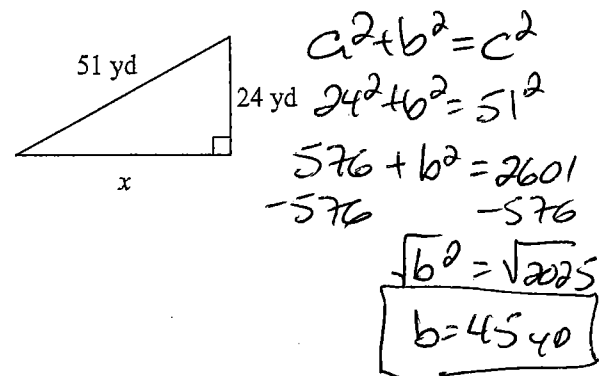
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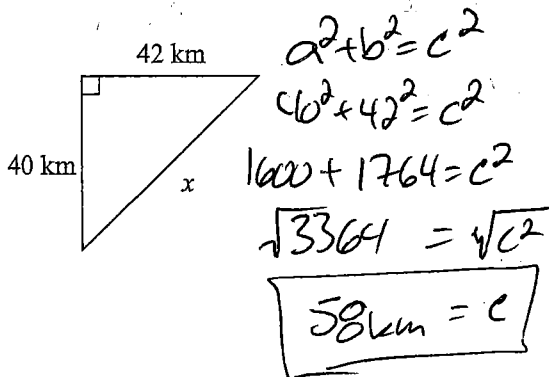
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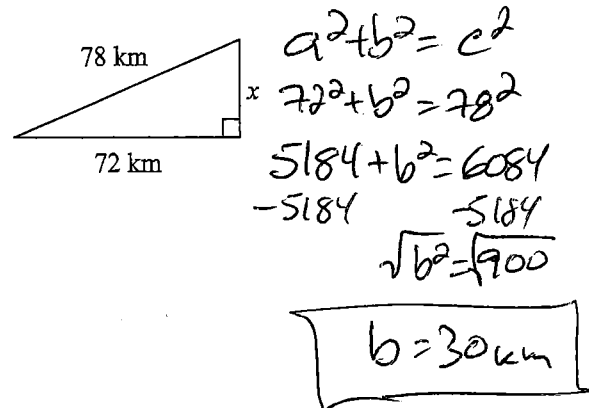
4)



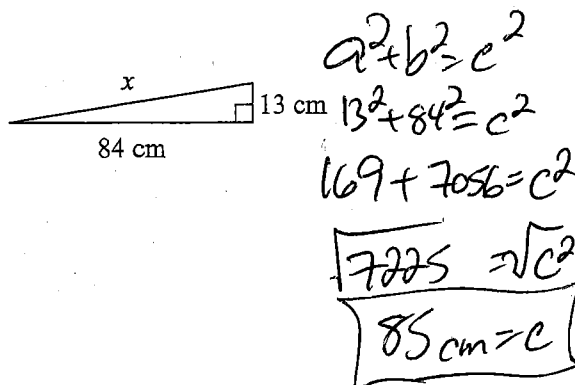
5)



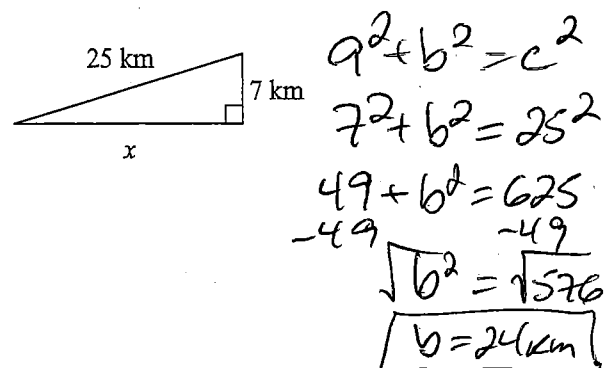
6)



7)



8)



State if each triangle is a right triangle.

9)

$a^2 + b^2 = c^2$
 $5^2 + 12^2 = c^2$
 $25 + 144 = c^2$
 $\sqrt{169} = c^2$
 $13 = c$
YES

10)

$a^2 + b^2 = c^2$
 $8.8^2 + 20.7^2 = c^2$
 $77.44 + 428.49 = c^2$
 $\sqrt{505.93} = c^2$
 $22.49 = c$
NO

Find the area of each triangle. Round intermediate values to the nearest tenth. Remember Area of Triangle = $\frac{b \cdot h}{2}$

11)

$A = \frac{bh}{2}$
 $A = \frac{5 \cdot 8.66}{2}$
 $A = 21.65 \text{ units}^2$

$a^2 + b^2 = c^2$
 $5^2 + b^2 = 10^2$
 $25 + b^2 = 100$
 $\sqrt{b^2} = 7.5$
 8.66

12)

$a^2 + b^2 = c^2$
 $4^2 + b^2 = 10^2$
 $16 + b^2 = 100$
 $\sqrt{b^2} = 9.65$
 $A = \frac{bh}{2}$
 $A = \frac{4 \cdot 9.65}{2}$
 $A = 19.3 \text{ units}^2$
 $\times 2$ for full Δ
 38.6 units^2

13)

$A = \frac{bh}{2}$
 $A = \frac{4 \cdot 5.744}{2}$
 $A = 11.488$
 $\times 2$ for both
 $A = 22.98 \text{ units}^2$

$a^2 + b^2 = c^2$
 $4^2 + b^2 = 10^2$
 $16 + b^2 = 100$
 $\sqrt{b^2} = 8.66$

14)

$a^2 + b^2 = c^2$
 $10^2 + b^2 = 11^2$
 $100 + b^2 = 121$
 $\sqrt{b^2} = 4.58$
 $A = \frac{bh}{2}$
 $A = \frac{4.58 \cdot 11.8}{2}$
 $A = 26.91$
 $\times 2$
 $A = 53.82 \text{ units}^2$