



Proving Pythagoras

NAME:

CLASS:

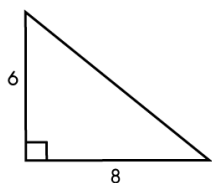
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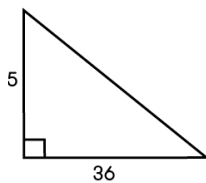
Basic

1) Use Pythagoras' Theorem to find the lengths of the unknown sides in the following triangles (diagrams not drawn to scale):

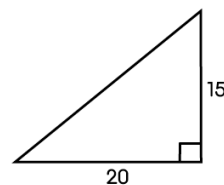
a)



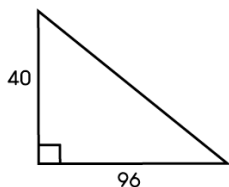
b)



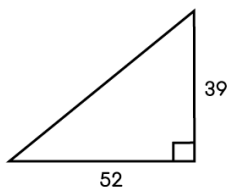
c)



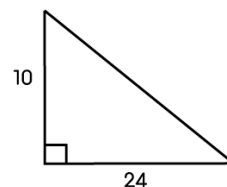
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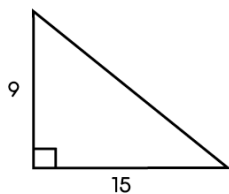
e)



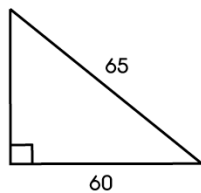
f)



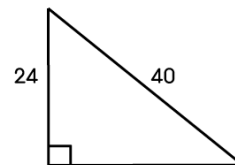
g)



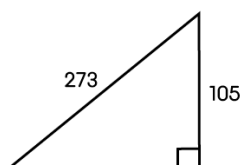
h)



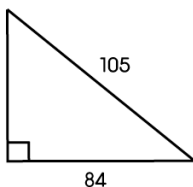
i)



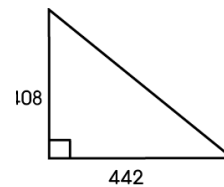
j)



k)



l)



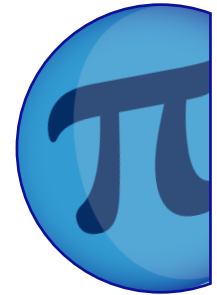


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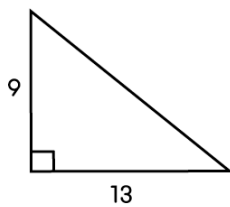
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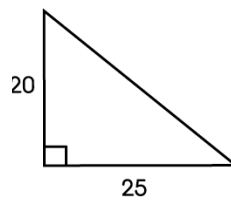
Core

1) Use Pythagoras' Theorem to find the lengths of the unknown sides in the following triangles (diagrams not drawn to scale):

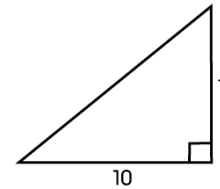
a)



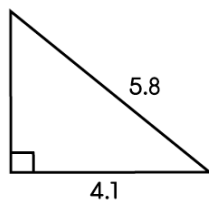
b)



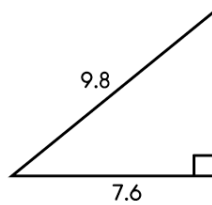
c)



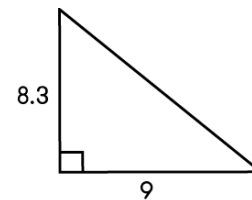
d)



e)

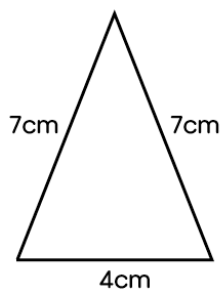


f)



2) A square has sides of 10cm. Find the lengths of its diagonals.

3) Calculate the area of the isosceles triangle below:



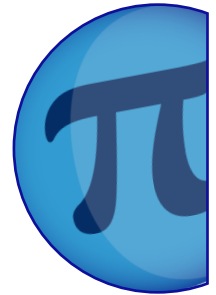


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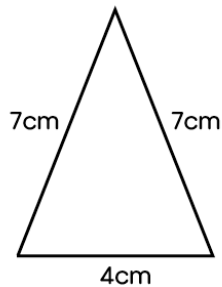
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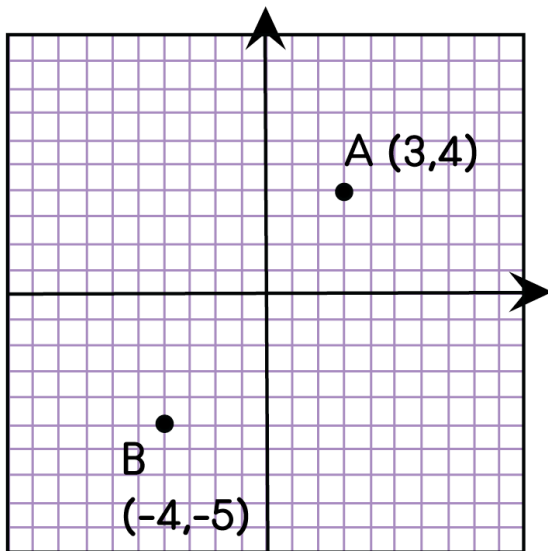


Advanced

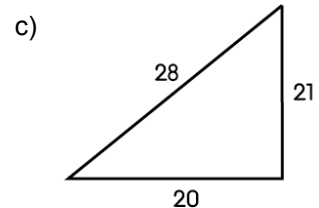
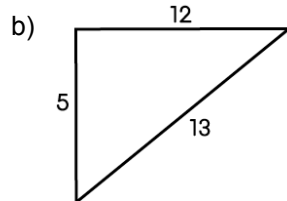
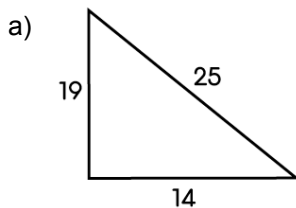
1) Calculate the area of the isosceles triangle below:



2) Calculate the distance between points A and B.



3) Which of the following triangles are right-angled triangles? (Diagrams are not drawn to scale.)





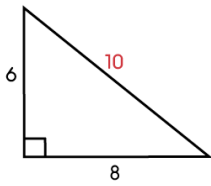
Proving Pythagoras

ANSWERS

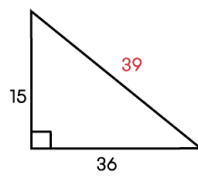
Basic

1)

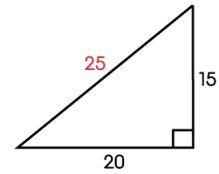
a)



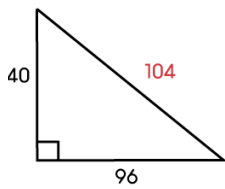
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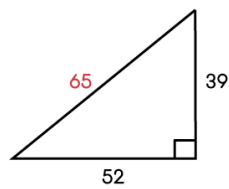
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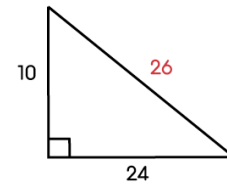
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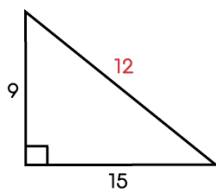
e)



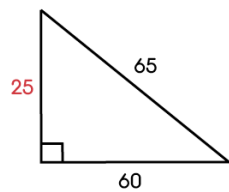
f)



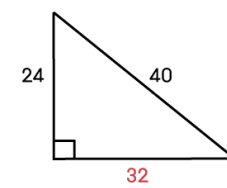
g)



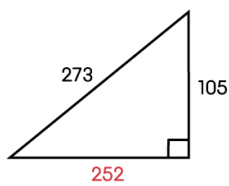
h)



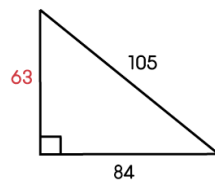
i)



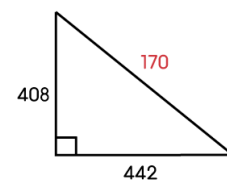
j)



k)



l)





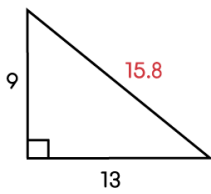
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ANSWERS

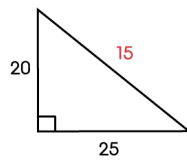
Core

1)

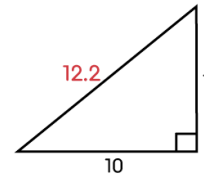
a)



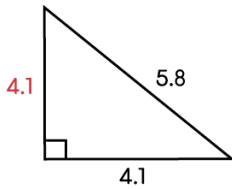
b)



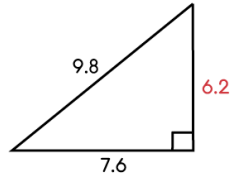
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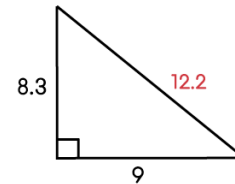
d)



e)



f)



2) 14.1cm

3) 13.4cm²

Advanced

1) 13.4cm²

2) 11.4

3) No

4) Yes

5) No