***Solution Section* 8.5 – Inverse Trigonometric Functions**

***Exercise***

Find the exact value of the expression whenever it is defined: 

***Solution***



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***Solution***















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***Solution***















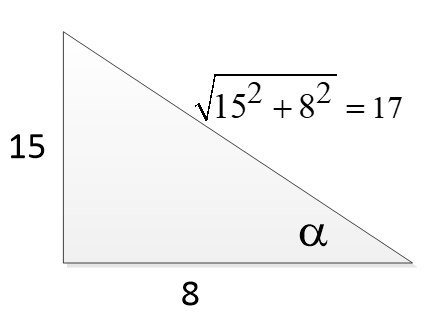


***Exercise***

Find the exact value of the expression whenever it is defined: 

***Solution***















***Exercise***

Evaluate without using a calculator: 

***Solution***



***Exercise***

Evaluate without using a calculator: 

***Solution***

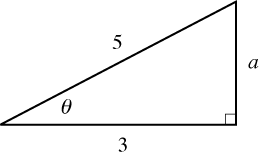




***Exercise***

Evaluate without using a calculator: 

***Solution***





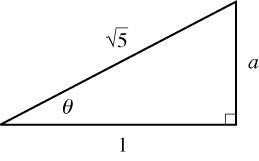




***Exercise***

Evaluate without using a calculator: 

***Solution***













***Exercise***

Evaluate without using a calculator: 

***Solution***











***Exercise***

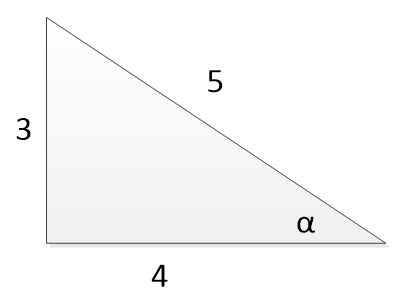
Evaluate without using a calculator: 

***Solution***



***Exercise***

Evaluate without using a calculator: 

***Solution***

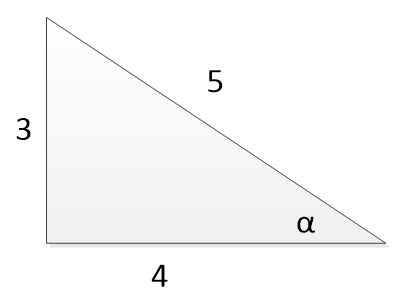








***Exercise***

Evaluate without using a calculator: 

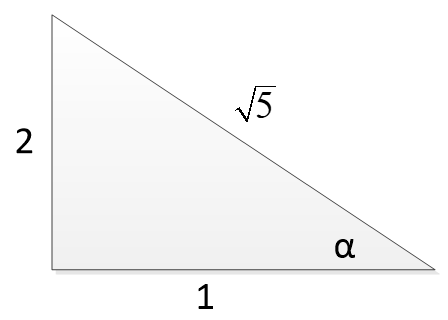
***Solution***





***Exercise***

Evaluate without using a calculator: 

***Solution***









***Exercise***

Evaluate without using a calculator: 

***Solution***









***Exercise***

Write an equivalent expression that involves *x* only for 

***Solution***





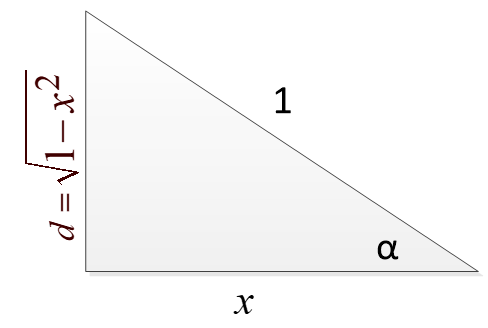




***Exercise***

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***Solution***



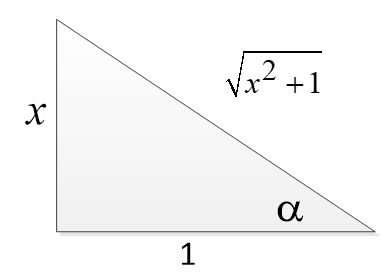






***Exercise***

Write the expression as an algebraic expression in *x* for *x* > 0: 

***Solution***







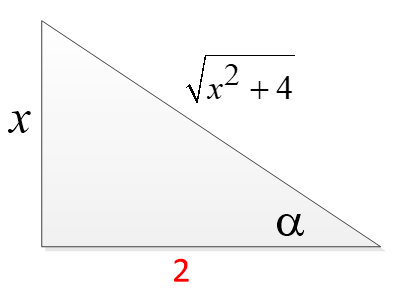




***Exercise***

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***Solution***







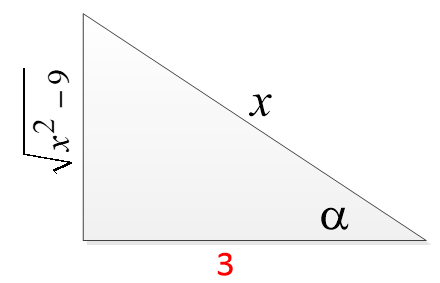




***Exercise***

Write the expression as an algebraic expression in *x* for *x* > 0: 

***Solution***









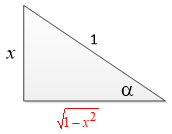
***Exercise***

Write the expression as an algebraic expression in *x* for *x* > 0: 

***Solution***











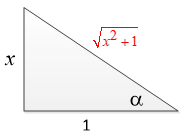
***Exercise***

Write the expression as an algebraic expression in *x* for *x* > 0: 

***Solution***















***Exercise***

Write the expression as an algebraic expression in *x* for *x* > 0: 

***Solution***









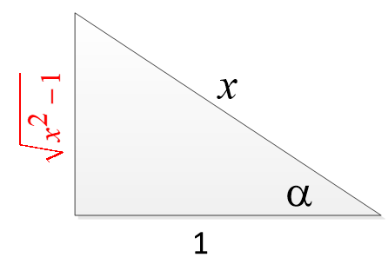


***Exercise***

Write the expression as an algebraic expression in *x* for *x* > 0: 

***Solution***











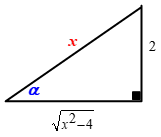




***Exercise***

Write the expression as an algebraic expression in *x*: 

***Solution***



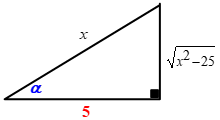




***Exercise***

Write the expression as an algebraic expression in *x*: 

***Solution***



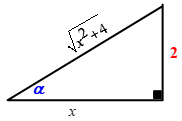




***Exercise***

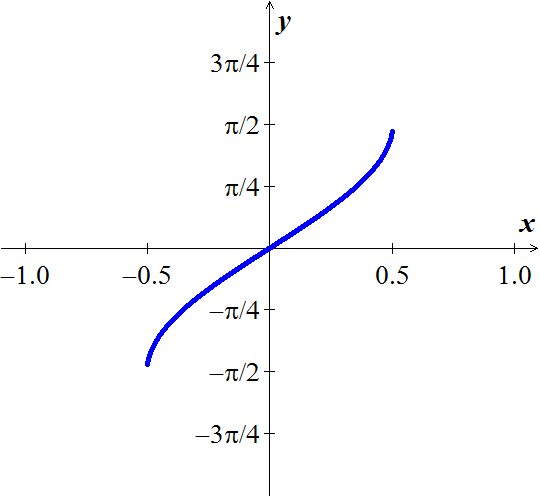
Write the expression as an algebraic expression in *x*: 

***Solution***







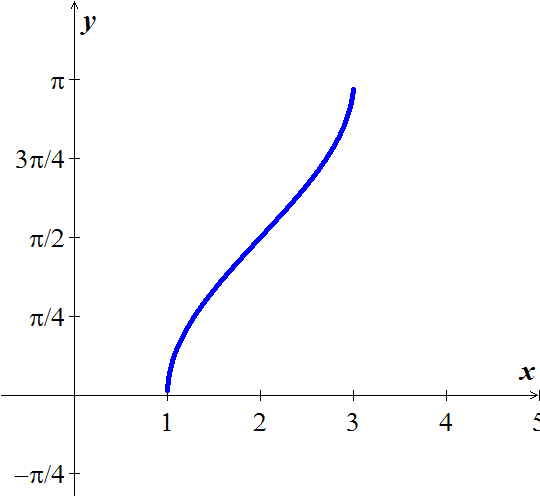
***Exercise***

Sketch he graph of the equation: 

***Solution***





***Exercise***

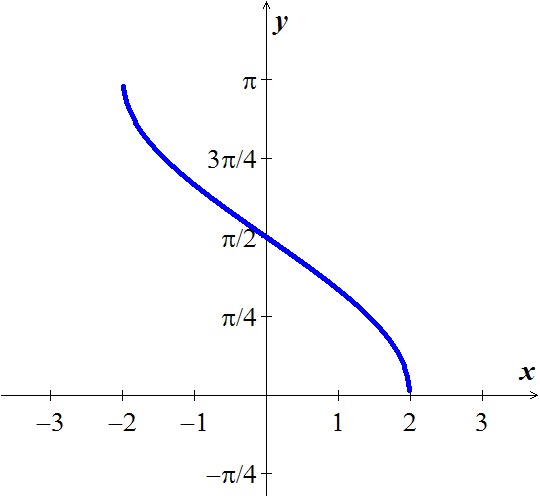
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***Solution***





***Exercise***

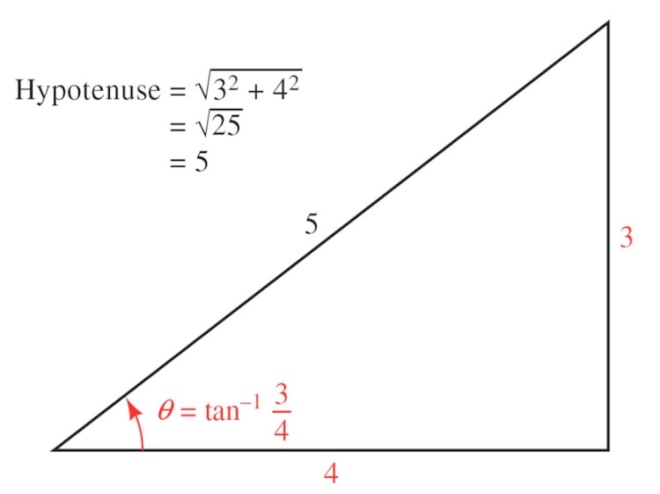
Sketch he graph of the equation: 

***Solution***





***Exercise***

******Evaluate without using a calculator

***Solution***









***Exercise***

Evaluate  as an equivalent expression in *x* only

***Solution***