Sum/Difference Formulas

Try when ___ is not a _____ _____ and without a _____ _____ _____.

Check if _____ is either the _____ or _____ of _____ angles.

Let ____ = 1st angle

Let ____ = 2nd angle

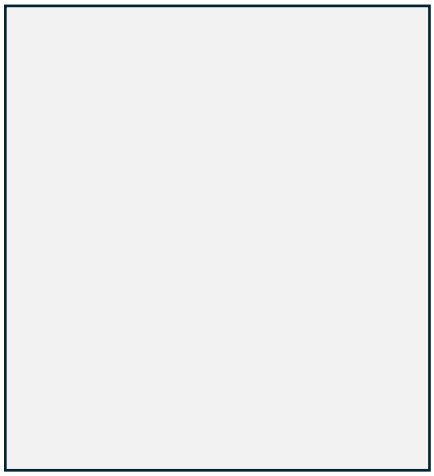
Sine – Sum and Difference

Cosine – Sum and Difference

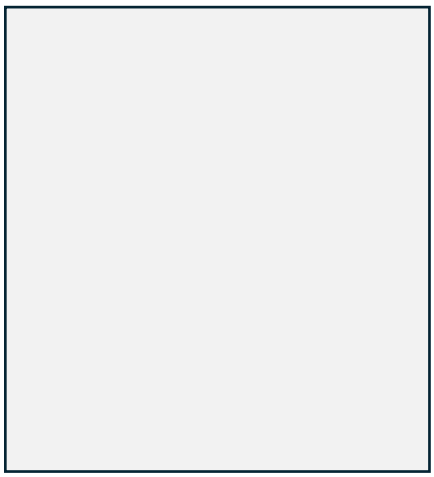
Typically, _____ of these formulas are provided at the final exam. Use the _____ for others.

ex. Find the _____ value of _____.

express _____ as

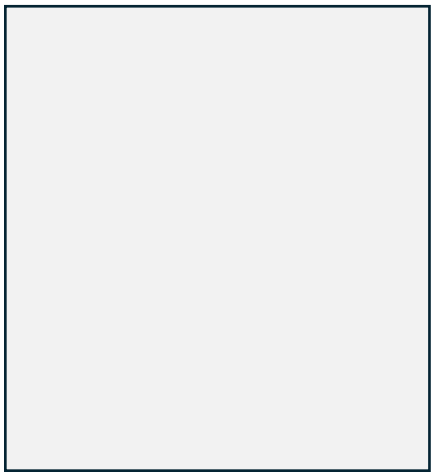


Do: Find the _____ value of _____.



Working in Radians

ex. Find the _____ value of _____.



Using the Formulas with Non-Standard Angles

Solving in the Other Direction

ex. Find the EXACT value of

ex. Find the EXACT value of

ex. Find the EXACT value of

ex. Verify

ex. Given _____ where ___ is in _____ and

_____ where ___ is in _____ find the EXACT value of:

a.

b.

ex. Given _____ where ___ is in _____ and

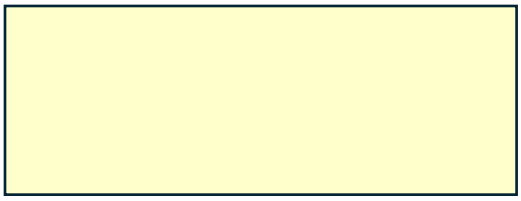
_____ where ___ is in _____ find the EXACT value of:

a.

b.

Tangent Sum/Difference

Although formulas exist for _____, it's easier to solve with identities:



Revisit previous example:

c.

Alternate Notation

ex. Given _____ where _____ and

_____ where _____ find the EXACT value of:

a.

b.

c.