Trigonometry Review

Warm-up

1. A child's height is a function of _____.

2. The cost of a house that you can afford is a function of _____.

3. Your grade in a college course is a function of _____.

4. Sine and Cosine are functions of _____.

Measuring Angles

There are two units for measuring angles: _____ and _____.

Example 1: Change from degrees to radians

     a) 130° b) 325°
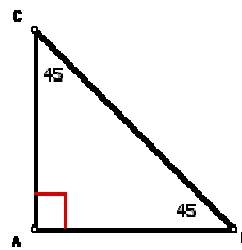
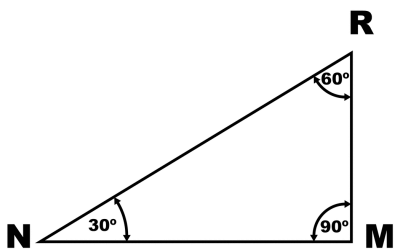**Example 2:** Change from radians to degrees

     a) $\dfrac{2\pi}{3}$ b) $\dfrac{5\pi}{4}$

Two Useful Facts Concerning Special Triangles

1. $30^o – 60^o – 90^o$ Triangles: _____

2. $45^o – 45^o – 90^o$ Triangles: _____

Example 3: Find the length of the missing sides

Trigonometry Review

Example 4: Find the following trig values.

a) $\sin 30^\circ$ b) $\sin 60^\circ$ c) $\cos 30^\circ$

d) $\cos 60^\circ$ e) $\sin 45^\circ$ f) $\cos 45^\circ$

Four ways to calculate sine and cosine functions.

1. _____

2. _____

3. _____

4. _____

Advantage of the Unit Circle: _____

_____.

Example 5: Find the following trig values using the Unit Circle.

a) $\cos 120^\circ$ b) $\sin -120^\circ$ c) $\tan \dfrac{3\pi}{2}$

d) $\sin \dfrac{7\pi}{2}$ e) $\cos\left(-\dfrac{2\pi}{3}\right)$ f) $\tan 6\pi$

Fill in The Unit Circle

Positive:
Negative:

Positive:
Negative:

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Positive:
Negative:

Positive:
Negative:

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