Worksheet – Graphing trig functions  
Sept. 13, 2013

Fill in this table without looking at the unit circle.

<table>
<thead>
<tr>
<th></th>
<th>0</th>
<th>2π</th>
<th>π/2</th>
<th>π</th>
<th>3π/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sin ø</td>
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<tr>
<td>Cos ø</td>
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<tr>
<td>Tan ø</td>
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</tbody>
</table>

Number lines: Mark π, -π, -5π/6, 7π/3 and 5π/4 on each of these:

Graphs of sine and cosine

x-tic = π/6 ... y-tic = 1/2

\[ y = \sin x \]
\[ y = \cos x \]

Graphs of sine and cosine that are scaled, translated, etc.:

For all remaining graphs, use x-tic = π/2 ... y-tic = 1

\[ y = -3\sin x \]
\[ y = \sin (2x) \]
\[ y = \sin(x - \pi/4) + 2 \]
Write an equation for each of the graphs below. Your equation should be in the form:
\[ y = a \sin(b(x-h)) + k \]