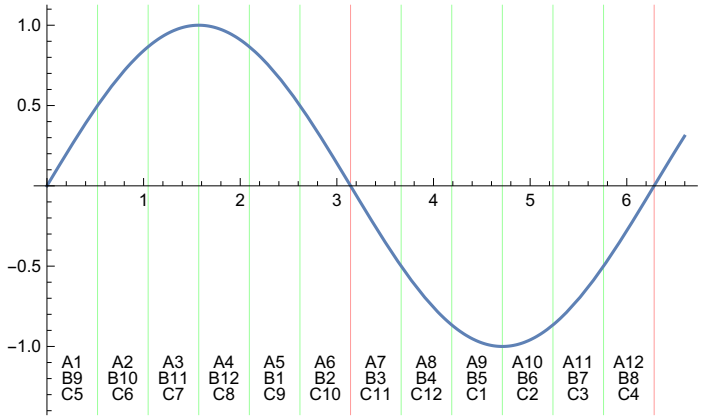
In[16]:=
```
SS[offset_, length_, high_] := Table[
    {x, high * Sin[x * π + offset * π]},
    {x, 0, length, 0.03}];
A1 = SS[0, 3, 1];
AAA = Plot[Sin[x], {x, 0, 2.1 π},
    GridLines → {{
        {1/6 π, Green},
        {2/6 π, Green},
        {3/6 π, Green},
        {4/6 π, Green},
        {5/6 π, Green},
        {7/6 π, Green},
        {8/6 π, Green},
        {9/6 π, Green},
        {10/6 π, Green},
        {11/6 π, Green},
        {1 π, Red},
        {2 π, Red},
        {3 π, Red}
      }, None}

  ];
TC[x_, offset_] := If[(x + offset) > 24,
    (x + offset) - 24,
    If[(x + offset) > 12,
     (x + offset) - 12, (x + offset)]];
TS[abc_, x_, offset_] := abc <> ToString[TC[x, offset]];
TT[abc_, offs_, high_] :=
  Table[Graphics[Text[TS[abc, x, offs], {(x - 0.5) / 6 * π, high}]], {x, 1, 12}];
CCa = TT["A", 0, -1.1];
CCb = TT["B", 8, -1.2];
CCc = TT["C", 16, -1.3];
Show[AAA, CCa, CCb, CCc
 , PlotRange → All
]
ClearAll;
```

```
II3[yy2_] := Integrate[Sin[x], {x, 0, yy2}];
II4[yy2_] := Integrate[Sin[x], {x, yy2 - π/6, yy2}];
II9 = Table[{
    yy,
    II3[yy],
    Round[1000 * II3[yy]] / 1000.0,
    Round[1000 * II4[yy]] / 1000.0,
    Round[II3[yy] * (2^8)],
    Round[II3[yy] * (2^10)],
    Round[II3[yy] * (2^12)],
    Round[II3[yy] * (2^16)],
    Round[II4[yy] * (2^16)]

   }, {yy, 1/6 π, 2 π, 1/6 π}];
II9 // MatrixForm
```

Out[25]=



Out[30]//MatrixForm=

$\frac{\pi}{6}$	$1-\frac{\sqrt{3}}{2}$	0.134	0.134	34	137	549	8780	8780
$\frac{\pi}{3}$	$\frac{1}{2}$	0.5	0.366	128	512	2048	32 768	23 988
$\frac{\pi}{2}$	1	1.	0.5	256	1024	4096	65 536	32 768
$\frac{2\pi}{3}$	$\frac{3}{2}$	1.5	0.5	384	1536	6144	98 304	32 768
$\frac{5\pi}{6}$	$\frac{1}{2}\left(2+\sqrt{3}\right)$	1.866	0.366	478	1911	7643	122 292	23 988
π	2	2.	0.134	512	2048	8192	131 072	8780
$\frac{7\pi}{6}$	$\frac{1}{2}\left(2+\sqrt{3}\right)$	1.866	−0.134	478	1911	7643	122 292	−8780
$\frac{4\pi}{3}$	$\frac{3}{2}$	1.5	−0.366	384	1536	6144	98 304	−23 988
$\frac{3\pi}{2}$	1	1.	−0.5	256	1024	4096	65 536	−32 768
$\frac{5\pi}{3}$	$\frac{1}{2}$	0.5	−0.5	128	512	2048	32 768	−32 768
$\frac{11\pi}{6}$	$1-\frac{\sqrt{3}}{2}$	0.134	−0.366	34	137	549	8780	−23 988
2π	0	0.	−0.134	0	0	0	0	−8780