

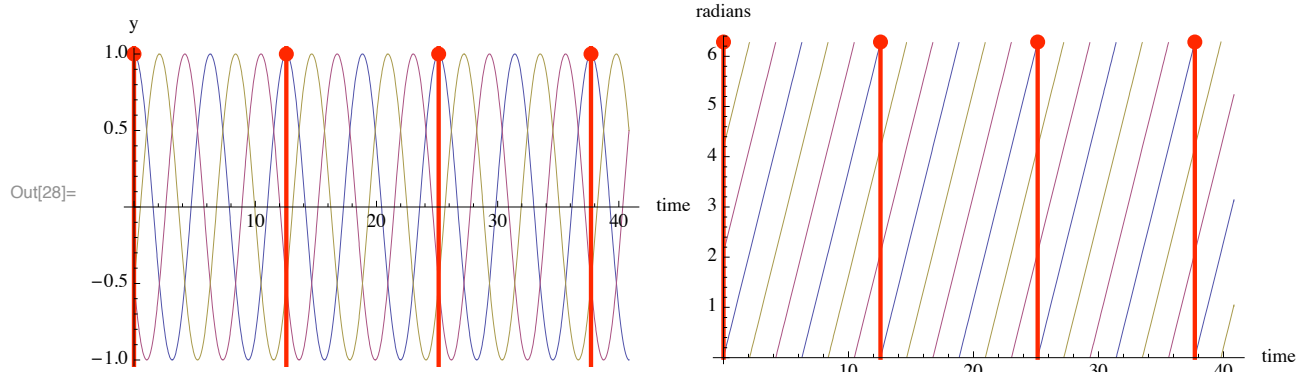
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In[20]:= f1[x_] := Cos[x];
f2[x_] := Cos[x + 2 π / 3];
f3[x_] := Cos[x + 4 π / 3];
g1[x_] := Mod[x - .00001, 2 π];
g2[x_] := Mod[x - .00001 + 2 π / 3, 2 π];
g3[x_] := Mod[x - .00001 + 4 π / 3, 2 π];
draw[o_] :=
  (l1 = Line[{{0, 1.5}, {0 π, -1.5}}];
  l2 = Line[{{4 π - o, 1.5}, {4 π - o, -1.5}}];
  l3 = Line[{{8 π - 2 o, 1.5}, {8 π - 2 o, -1.5}}];
  l4 = Line[{{12 π - 3 o, 1.5}, {12 π - 3 o, -1.5}}];
  p1 = Point[{0 π, 1}];
  p2 = Point[{4 π - o, Max[f1[4 π - o], f2[4 π - o], f3[4 π - o]]}];
  p3 = Point[{8 π - 2 o, Max[f1[8 π - 2 o], f2[8 π - 2 o], f3[8 π - 2 o]]}];
  p4 = Point[{12 π - 3 o, Max[f1[12 π - 3 o], f2[12 π - 3 o], f3[12 π - 3 o]]}];
  l1a = Line[{{0 π, 0}, {0 π, 2 π}}];
  l2a = Line[{{4 π - o, 0}, {4 π - o, 2 π}}];
  l3a = Line[{{8 π - 2 o, 0}, {8 π - 2 o, 2 π}}];
  l4a = Line[{{12 π - 3 o, 0}, {12 π - 3 o, 2 π}}];
  p1a = Point[{0 π, Max[g1[0 π], g2[0 π], g3[0 π]]}];
  p2a = Point[{4 π - o, Max[g1[4 π - o], g2[4 π - o], g3[4 π - o]]}];
  p3a = Point[{8 π - 2 o, Max[g1[8 π - 2 o], g2[8 π - 2 o], g3[8 π - 2 o]]}];
  p4a = Point[{12 π - 3 o, Max[g1[12 π - 3 o], g2[12 π - 3 o], g3[12 π - 3 o]]}];
  Show[Plot[{f1[x], f2[x], f3[x]}, {x, 0 π, 13 π}, ImageSize → Scaled[.6],
    AxesLabel → {"time", "y"}], {Graphics[{Thick, Red, l1}],
    Graphics[{Thick, Red, l2}], Graphics[{Thick, Red, l3}], Graphics[{Thick, Red, l4}],
    Graphics[{PointSize[Large], Red, p1}], Graphics[{PointSize[Large], Red, p2}],
    Graphics[{PointSize[Large], Red, p3}], Graphics[{PointSize[Large], Red, p4}]}]
  Show[Plot[{g1[x], g2[x], g3[x]}, {x, 0, 13 π}, ImageSize → Scaled[.6],
    AxesLabel → {"time", "radians"}], {Graphics[{Thick, Red, l1a}],
    Graphics[{Thick, Red, l2a}], Graphics[{Thick, Red, l3a}], Graphics[{Thick, Red, l4a}],
    Graphics[{PointSize[Large], Red, p1a}], Graphics[{PointSize[Large], Red, p2a}],
    Graphics[{PointSize[Large], Red, p3a}], Graphics[{PointSize[Large], Red, p4a}]}]

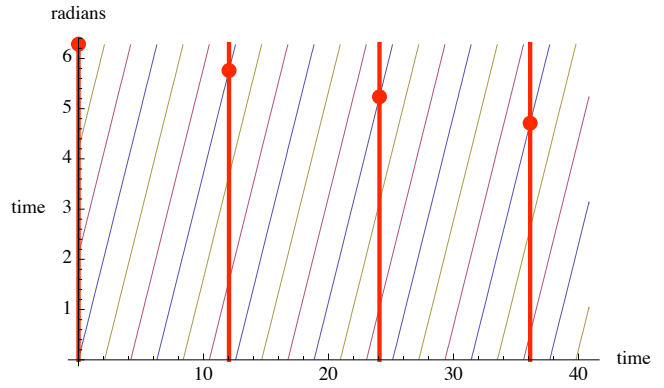
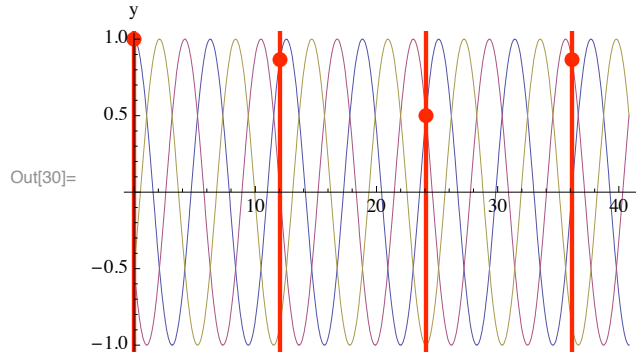
(*
Manipulate[draw[y], {y, 0, 2π/3}]
Export["all.swf", %]*)
Print["Standing still"]
draw[0]
Print["Going backwards"]
draw[π/6]
Print["Flipping"]
draw[π/3]
Print["Going forwards"]
draw[π/2]
Print["Standing still again"]
draw[2π/3]

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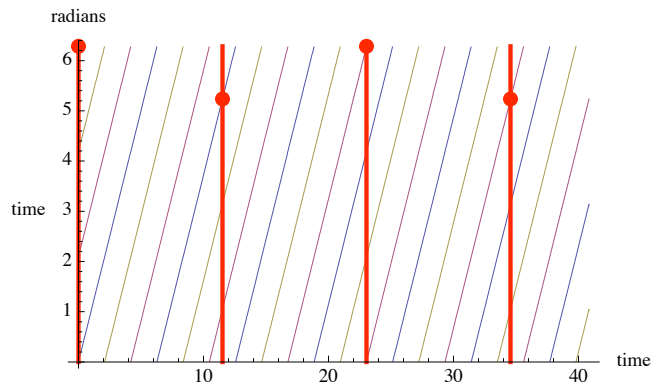
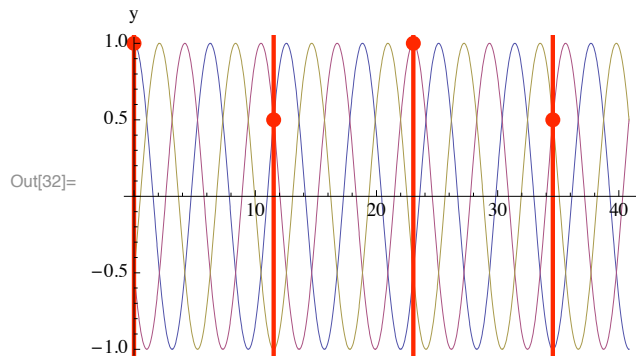
Standing still



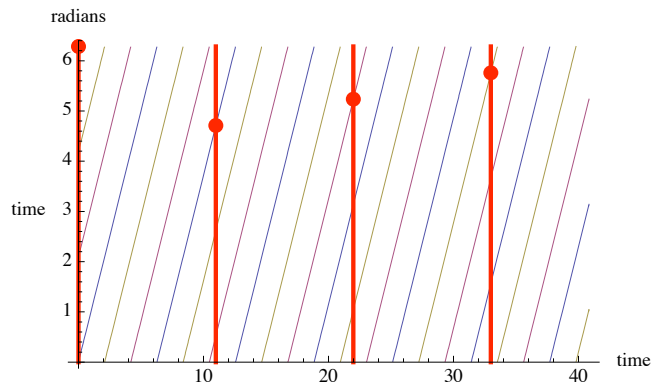
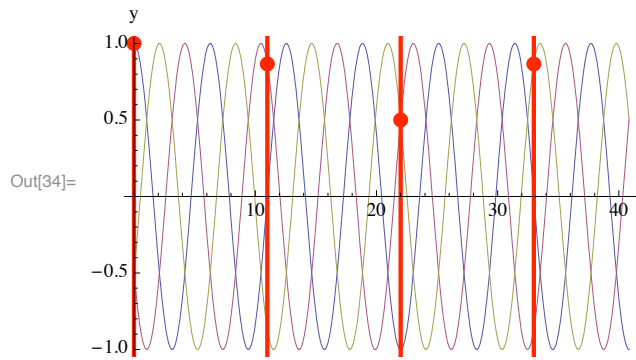
Going backwards



Flipping



Going forwards



Standing still again

