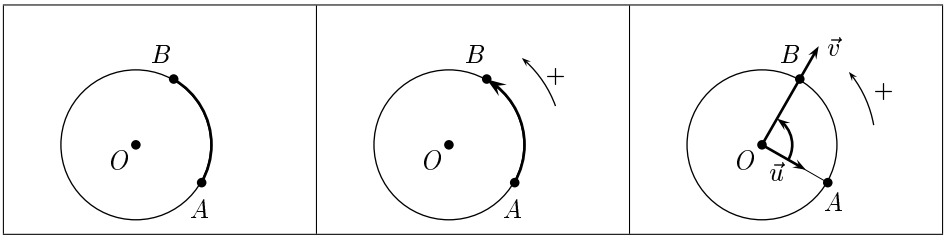
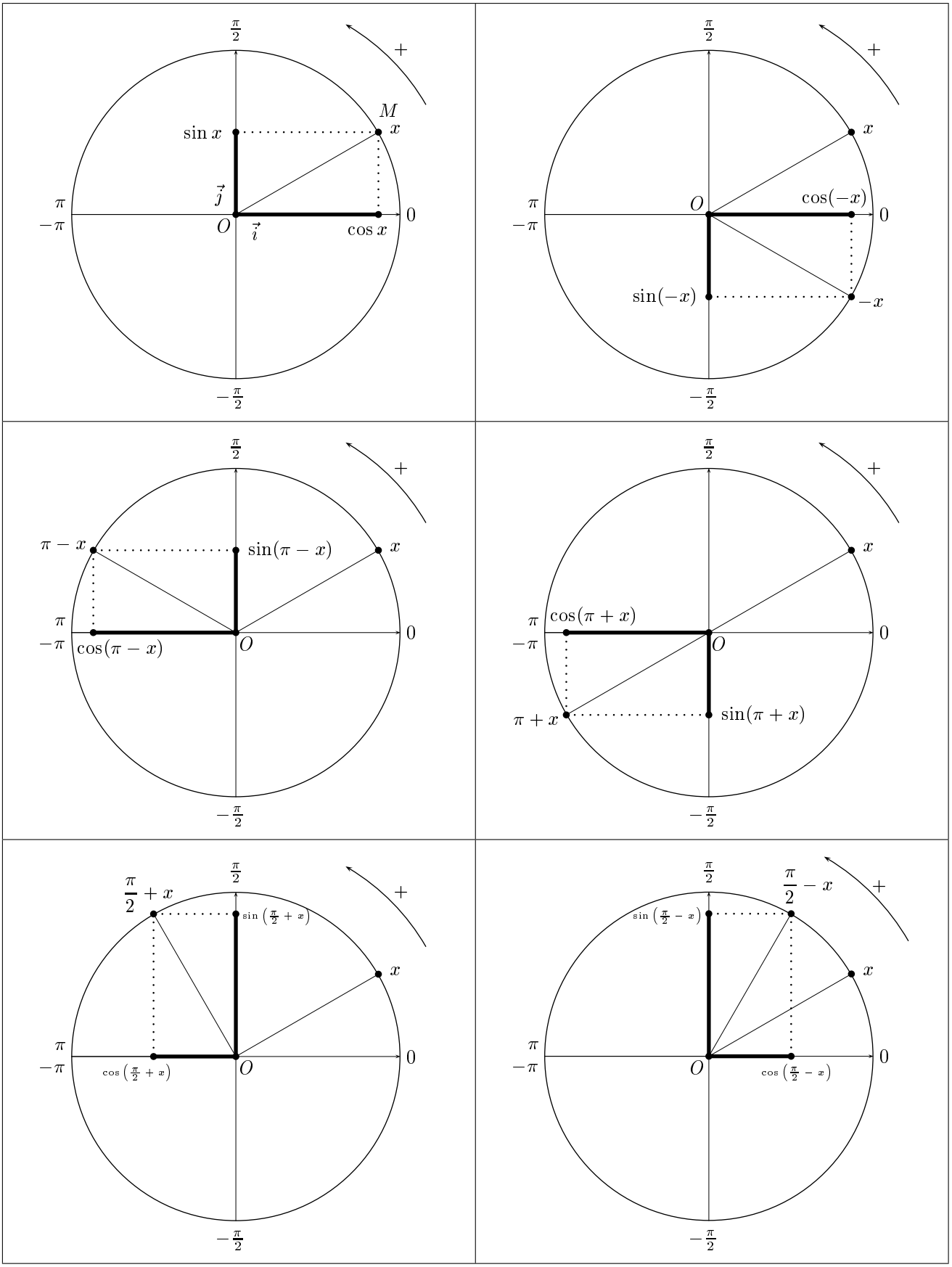
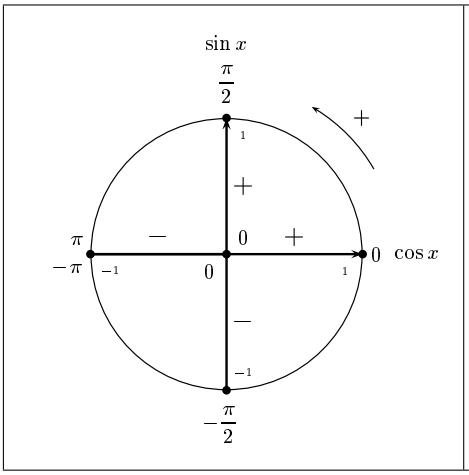
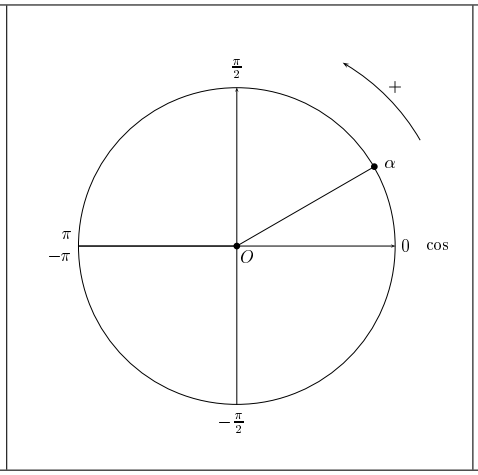
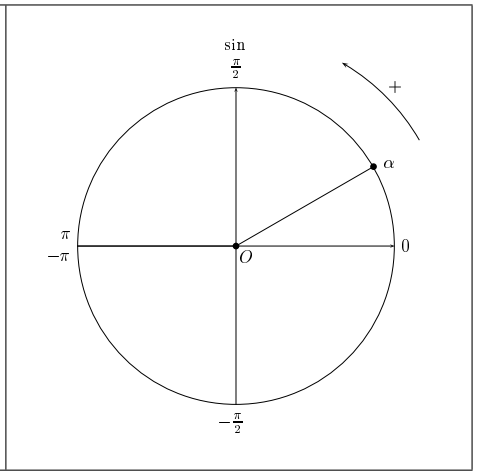
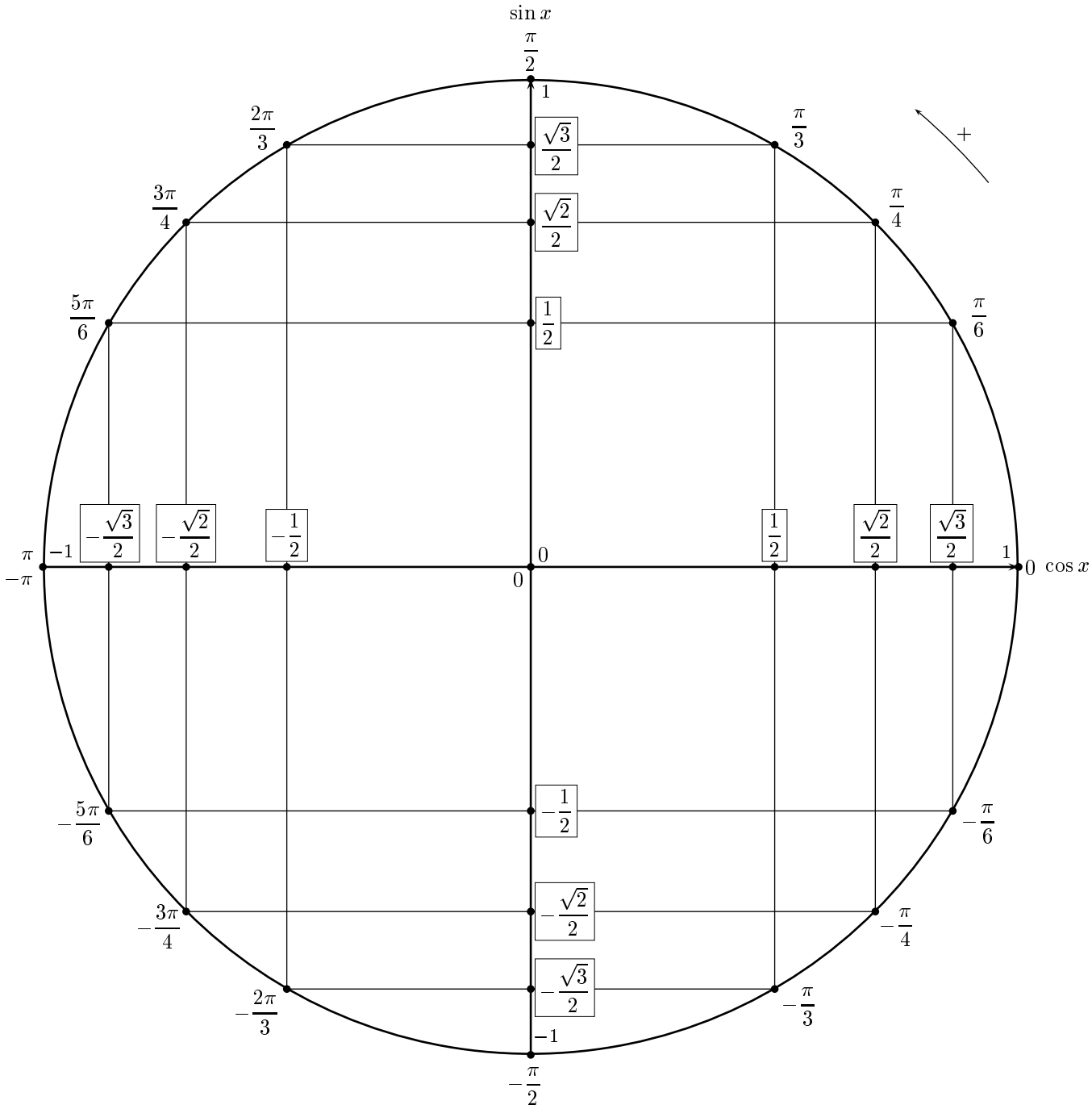

B
O
A
B
O
A
+
B
$\vec{v}$
+
O
$\vec{u}$
A


$\frac{\pi}{2}$
+
M
$\sin x$
x
$\vec{j}$
π
$-\pi$
O
$\vec{i}$
$\cos x$
0
$-\frac{\pi}{2}$
$\frac{\pi}{2}$
+
x
π
$-\pi$
O
$\cos(-x)$
0
$\sin(-x)$
$-x$
$-\frac{\pi}{2}$
$\frac{\pi}{2}$
+
$\pi - x$
$\sin(\pi - x)$
x
π
$-\pi$
$\cos(\pi - x)$
O
0
$-\frac{\pi}{2}$
$\frac{\pi}{2}$
+
x
π
$-\pi$
$\cos(\pi + x)$
O
0
$\pi + x$
$\sin(\pi + x)$
$-\frac{\pi}{2}$
$\frac{\pi}{2}$
+
$\frac{\pi}{2} + x$
$\sin\left(\frac{\pi}{2} + x\right)$
x
π
$-\pi$
$\cos\left(\frac{\pi}{2} + x\right)$
O
0
$-\frac{\pi}{2}$
$\frac{\pi}{2}$
$\frac{\pi}{2} - x$
+
$\sin\left(\frac{\pi}{2} - x\right)$
x
π
$-\pi$
O
$\cos\left(\frac{\pi}{2} - x\right)$
0
$-\frac{\pi}{2}$


sin x
π/2
1
+
+
π
−
0
+
0
cos x
−π
−1
0
1
−
−1
−π/2


π/2
+
α
π
0
cos
−π
O
−π/2


sin
π/2
+
α
π
0
−π
O
−π/2


sin x
π/2
1
2π/3
π/3
+
√3/2
3π/4
π/4
√2/2
5π/6
π/6
1/2
−√3/2
−√2/2
−1/2
1/2
√2/2
√3/2
π
−1
0
1
0
cos x
−π
0
−5π/6
−π/6
−1/2
−3π/4
−π/4
−√2/2
−2π/3
−π/3
−√3/2
−1
−π/2