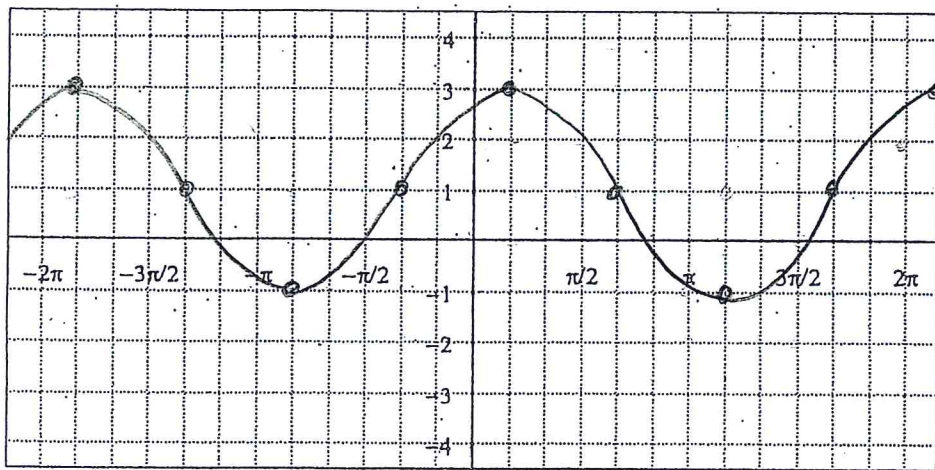


Notes Section 4.4-4.5: Trig graphs

$$y = a \sin(bx + c) + d$$
$$y = a \cos(bx + c) + d$$

amplitude: $|a|$
period: $2\pi/b$

1. $y = 2 \cos(x - \pi/6) + 1$



S - VS:
R -
M - R π
up

amplitude = 2
phase shift = $\pi/6$
vertical shift = 1

$$2. \quad y = 3 \sin(2x - \pi/2)$$

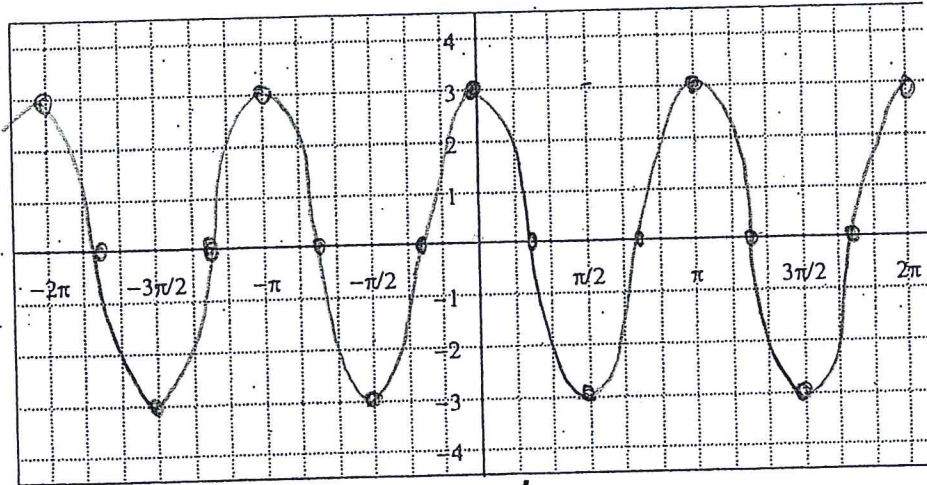
$$\hat{y} = 3 \sin(2(x - \pi/4))$$

S - VS 3

HS $1/2$

R - none

M - R $\pi/4$



amplitude: 3

phase shift: $\pi/4$

period: $2\pi/2 = \pi$

$$3. \quad y = -\tan[2(x - \pi/3)]$$

S - HS $1/2$

R - VR

M - right $\pi/3$

