

## Sinusoidal Functions Worksheet

For questions # 1-4 start with the parent function then complete the transformations given.

1. Using transformations, graph two cycles of the following trigonometric functions. State the period, phase shift, amplitude, and vertical shift.

a)  $y = \cos(\theta - 60^\circ) + 2$     b)  $y = \sin(\theta + 180^\circ) - 4$     c)  $y = \sin(\theta + 135^\circ) - 1$     d)  $y = \cos(\theta - 120^\circ) - 2$

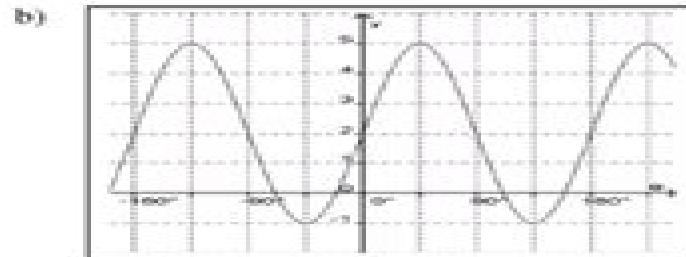
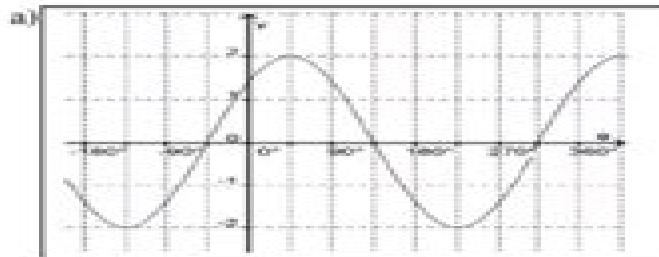
2. Using transformations, graph two cycles of the following trigonometric functions. State the period, phase shift, amplitude, and vertical shift.

a)  $y = 2\cos(3\theta)$     b)  $y = -3\sin\left(\frac{1}{2}\theta\right)$     c)  $y = 5\sin(2\theta)$     d)  $y = -\frac{1}{2}\cos(4\theta)$

3. Using transformations, graph two cycles of the following trigonometric functions. State the period, phase shift, amplitude, and vertical shift.

a)  $y = 4\cos(\theta + 180^\circ) + 2$     b)  $y = \sin[2(\theta + 30^\circ)] + 3$     c)  $y = 2\sin[3(\theta - 180^\circ)]$   
d)  $y = 3\cos(2\theta - 180^\circ) + 5$     e)  $y = -4\sin(3\theta + 180^\circ)$     f)  $y = -5\cos(2\theta - 60^\circ) - 1$

4. Find the sine function  $y = a\sin[k(\theta + d)] + c$  for each graph by listing the amplitude, period, phase shift, and vertical shift first.



# Applications Of Sinusoidal Functions Key

**Bodh R. Gulati, Helen G. Bass**

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3 four quadrant operation of dc motor four quadrant operation or mode of any dc motor means that machine operate in four quadrants they are forward breaking mode forward motoring mode reverse breaking or stop mode and reverse motoring mode a motor operates in two modes motoring and breaking a motor drive capable of

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aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor s generated low voltage up to the supply voltage

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put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive 2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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four quadrant operation of dc motor means that the machine operates in four quadrants they are forward braking forward motoring reverse motoring and reverse braking a motor operates in two modes motoring and braking

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1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

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aug 16 2021 the four quadrant operation of the motor can be described as follows quadrant i in the first quadrant the developed power by the motor is positive thus the motor operates in motoring mode and converts electrical energy into mechanical energy therefore the operation of the motor in first quadrant is called forward motoring quadrant ii

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