**TOWARDS EXCELLENCE IN TRIG EQUATIONS.**

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| 1. ***y = 60 + 40sin(20x)*** |
| Max y value =   | Min y value =   | Period = |

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| 2. ***y = 11 + 4sin(90x)*** |
| Max y value =   | Min y value =   | Period = |

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| 3. ***y = 18 + 14sin(36x)*** |
| Max y value =   | Min y value =   | Period = |

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| 4. ***y = 10 + 3cos(30x)*** |
| Max y value =   | Min y value =   | Period = |

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| 5. ***y = 60 + 40cos(12x)*** |
| Max y value =   | Min y value =   | Period = |

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| 6. Find the equation in the form ***y = A + Bsin( Cx )*** if: |
| Max y value = 12  | Min y value = 2  | Period = 36 |

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| 7. Find the equation in the form ***y = A + Bsin( Cx ) if:*** |
| Max y value = 100  | Min y value = 40  | Period = 20 |

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| 8. Find the equation in the form y = ***A + Bcos( Cx )*** if: |
| Max y value = 90  | Min y value = 70  | Period = 6 |

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| 9. Find the equation in the form ***y = A + Bcos( Cx )*** if: |
| Max y value = 7  | Min y value = 3  | Period = 12.5 |

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| 10. Find the equation in the form ***y = A + Bcos( Cx )*** if: |
| Max y value = 12  | Min y value = 2  | Period = 12$\frac{2}{3}$ |

**TOWARDS EXCELLENCE IN TRIG EQUATIONS.ANSWERS**

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| 1. ***y = 60 + 40sin(20x)*** |
| Max y value = 100   | Min y value = 20   | Period = 360 = 18 20 |

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| 2. ***y = 11 + 4sin(90x)*** |
| Max y value = 15  | Min y value = 7  | Period = 360 = 4 90 |

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| 3. ***y = 18 + 14sin(36x)*** |
| Max y value = 32  | Min y value = 4  | Period = 360 = 10 36 |

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| 4. ***y = 10 + 3cos(30x)*** |
| Max y value = 13  | Min y value = 7  | Period = 360 = 12 30 |

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| 5. ***y = 60 + 40cos(12x)*** |
| Max y value = 100   | Min y value = 20  | Period = 360 = 30 12 |

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| 6. Find the equation in the form ***y = A + Bsin( Cx )*** if: ***y = 7 + 5sin(10x)*** |
| Max y value = 12  | Min y value = 2  | Period = 36 |

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| 7. Find the equation in the form ***y = A + Bsin( Cx ) if: y = 70 + 30sin(18x)*** |
| Max y value = 100  | Min y value = 40  | Period = 20 |

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| 8. Find the equation in the form y = ***A + Bcos( Cx )*** if: ***y = 80 + 10cos(60x)*** |
| Max y value = 90  | Min y value = 70  | Period = 6 |

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| 9. Find the equation in the form ***y = A + Bcos( Cx )*** if: ***y = 5 + 2cos(28.8x)*** |
| Max y value = 7  | Min y value = 3  | Period = 12.5 |

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| 10. Find the equation in the form ***y = A + Bcos( Cx )*** if: ***y = 7 + 5cos( 28.42x)*** |
| Max y value = 12  | Min y value = 2  | Period = 12$\frac{2}{3}$ |