**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 |

**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 |