TOWARDS EXCELLENCE IN TRIG EQUATIONS.

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

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

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

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

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

6. Find the equation in the form $y = A + B\sin(Cx)$ if:		
Max y value = 12	Min y value = 2	Period = 36

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

8. Find the equation in the form y = $A + B\cos(Cx)$ if:		
Max y value = 90	Min y value = 70	Period = 6

9. Find the equation in the form $y = A + B\cos(Cx)$ if:		
Max y value = 7	Min y value = 3	Period = 12.5

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

TOWARDS EXCELLENCE IN TRIG EQUATIONS.ANSWERS

1. $y = 60 + 40\sin(20x)$		
Max y value = 100	Min y value = 20	Period = $\frac{360}{20} = 18$

2. $y = 11 + 4\sin(90x)$		
Max y value = 15	Min y value = 7	Period = $\frac{360}{90} = 4$

3. $y = 18 + 14\sin(36x)$		
Max y value = 32	Min y value = 4	Period = $\frac{360}{36} = 10$

4. $y = 10 + 3\cos(30x)$		
Max y value = 13	Min y value = 7	Period = $\frac{360}{30} = 12$

5. $y = 60 + 40\cos(12x)$		
Max y value = 100	Min y value = 20	Period = $\frac{360}{12} = 30$

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

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

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

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

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