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15. 16 16 3) Linear, the output to any input zero, therefore for the input $x_1(t) + x_2(t)$ the output is zero which can be considered as $y_1(t) + y_2(t) = x \cdot 0 + x \cdot 0 = 0$. This is a linear combination of the corresponding outputs to $x_1(t)$ and $x_2(t)$.

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A digital signal uses the binary (0 and 1) system for transferring message signals. Such a system cannot utilise the decimal system (which corresponds to analogue signals). Digital signals represent discontinuous values. Question 15.4:

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$u(t) = 5\cos(1800 t) + 20\cos(2000 t) + 5\cos(2200 t)$
 $= 20(1 + \frac{1}{2} \cos(200 t))\cos(2000 t)$ The modulating signal is $m(t) = \cos(200 t)$ whereas the carrier signal is $c(t) = 20\cos(2000 t)$...

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$n = -x(t - 4n)$. First we plot $x(t)$ then by shifting it by multiples of 4 we can plot $x_1(t)$. $x(t)$ is a triangular pulse of width 4 and height 2 from which a standard triangular pulse of width 1 and height 1 is subtracted. The result is a trapezoidal pulse, which when replicated at intervals of 4 gives the plot of $x_1(t)$.

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$x_1(t) = \sum_{n=-\infty}^{\infty} x(t - 4n)$. First we plot $x(t)$ then by shifting it by multiples of 4 we can plot $x_1(t)$. $x(t)$ is a triangular pulse of width 4 and height 2 from which a standard triangular pulse of width 1 and height 1 is subtracted. The result is a trapezoidal pulse, which when replicated at intervals of 4 gives the plot of $x_1(t)$.

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