$$\frac{1}{\Phi} \frac{d^{2}\Phi}{d\phi^{2}} = -m^{2}\Phi \Rightarrow \Phi(\phi) = e^{+im\phi}\Phi$$

$$= \Phi(\phi) = \Phi(\phi) + i\sin(in\phi)$$

$$= \Phi(\phi) = \Phi(\phi) + i\sin(in\phi)$$

$$= \frac{im(\phi)}{im(\phi)} = \frac{im(\phi)}{im(\phi)} = \frac{im(\phi)}{im(\phi)}$$

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m is on integer: m=0,±1,±2,±3

To we don't know what the value is
but we know its en integer + stoggisted legendre equation = sin Odo (sin Odo) +/2(2+1) sin (e-m2 (a) = AP, (60,0) : n=rcos(ce) -. n=(05(Q) 2:- positive integer |m|/2 d |m| $P_{1}^{m}(n) = (1-n^{2})$ d d d d dLa legendre polynoims