2
$$W'' + \frac{1}{2}W' + (1 - \frac{V^2}{2^2})W = 0$$

0 - np. swd all morns, ∞ - nerp owdar morns

(Pn, Pn) =
$$\frac{2}{2n+3} \frac{(n+m)!}{(n-m)!}$$

(1)
$$-\frac{d}{dz}(1-z^2)\frac{d}{dz}y = \lambda y$$
 $y(1) < \infty$ $y(-1) < \infty$

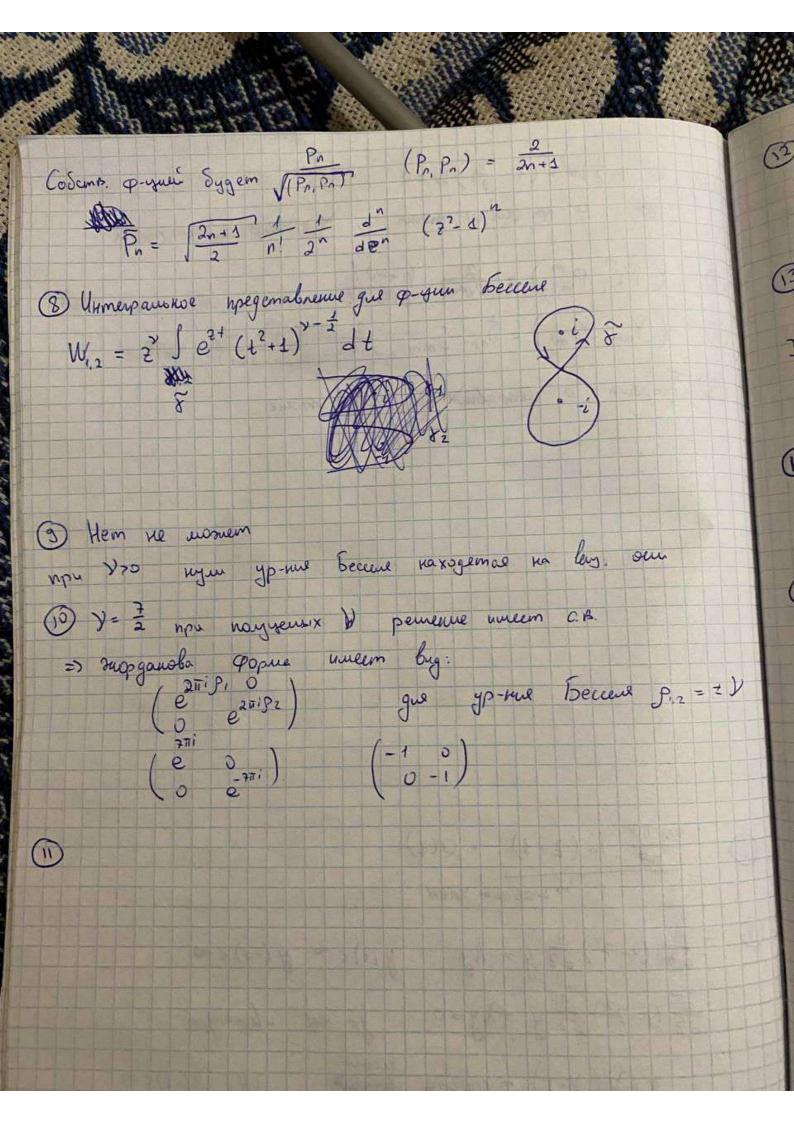
$$\frac{d}{dz}(1-z^2)\frac{d}{dz}y + \lambda y = 0 \quad \text{yp-mue lemanger}$$

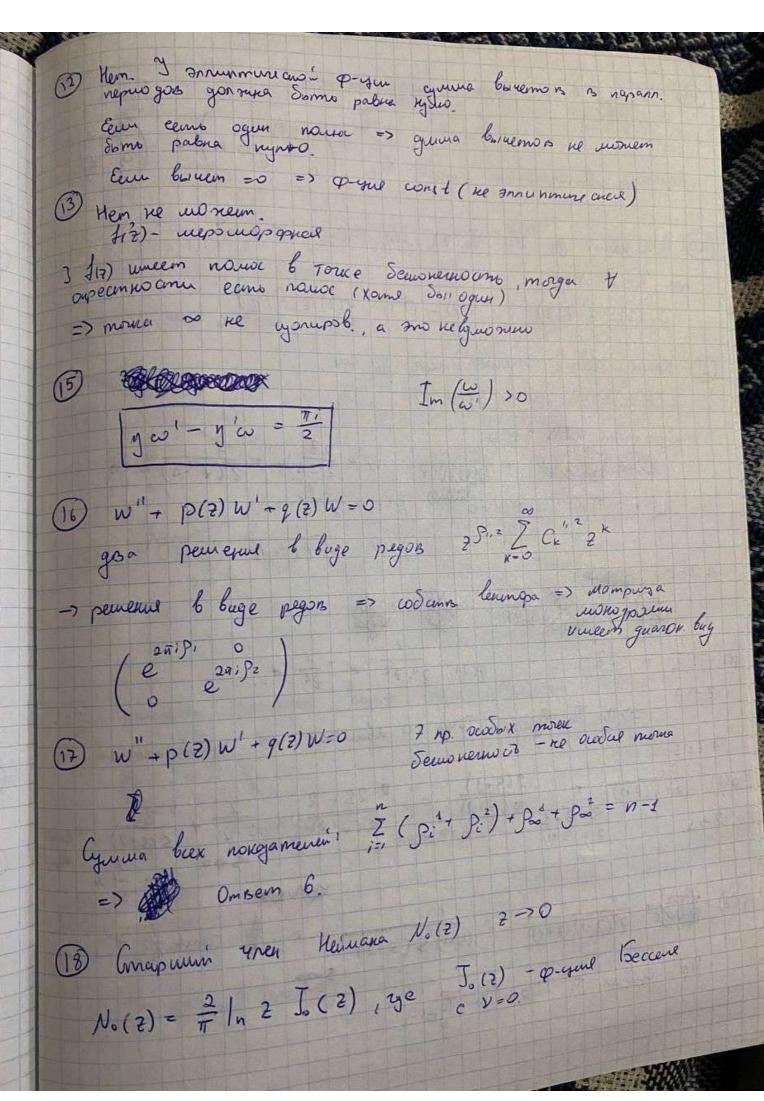
$$\lambda = \lambda (\lambda + 1) - \cos \cos \alpha \theta \quad \text{with } \quad \lambda = \lambda = 0$$

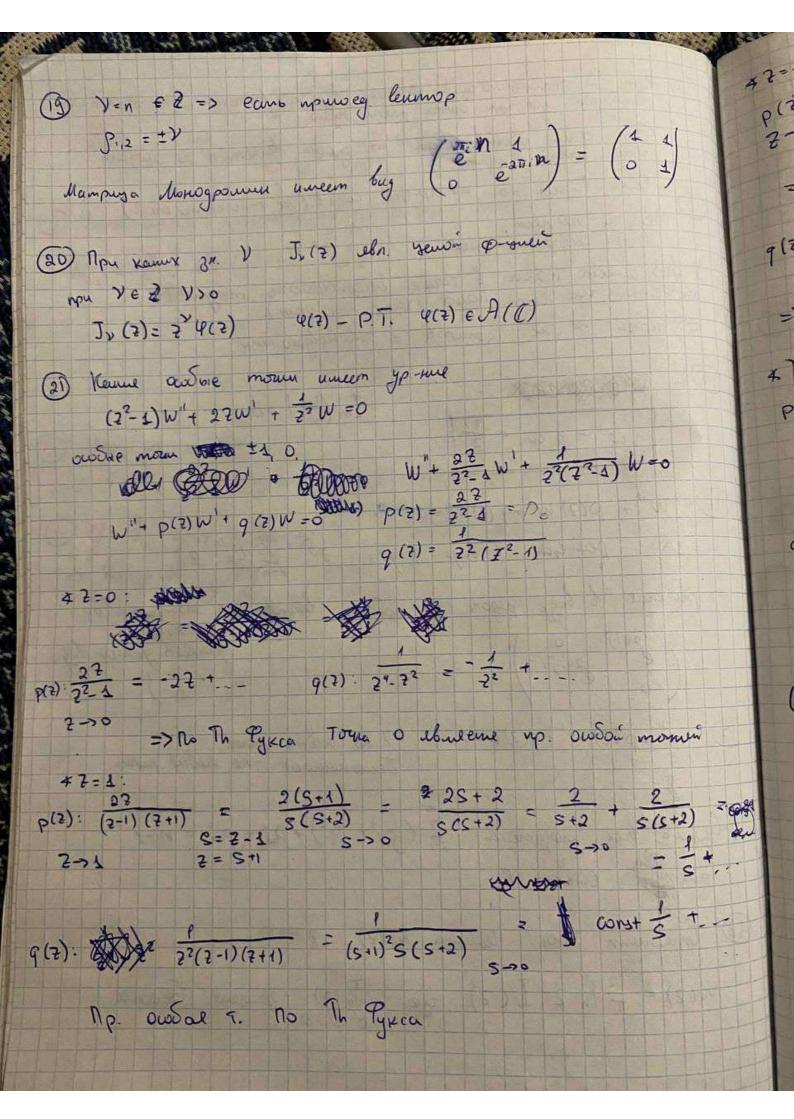
$$\lambda = \lambda (\lambda + 1) - \cos \alpha n \beta$$

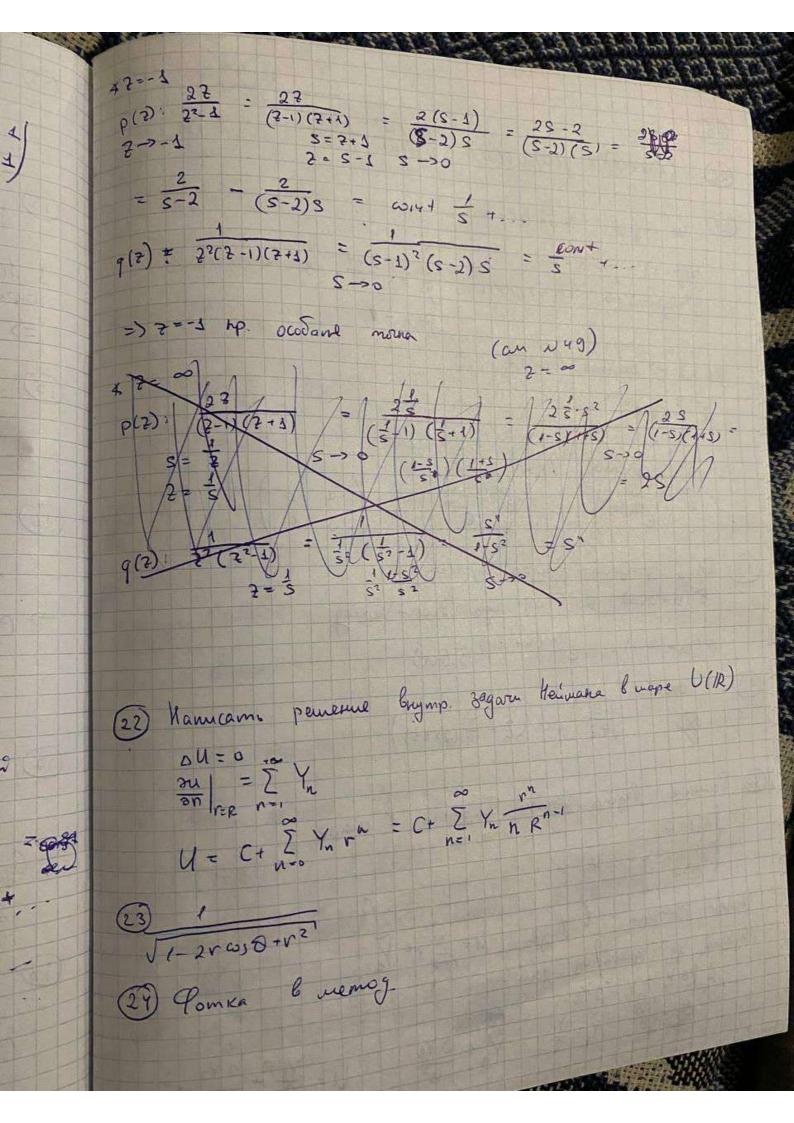
$$= \lambda = n (n + 1)$$

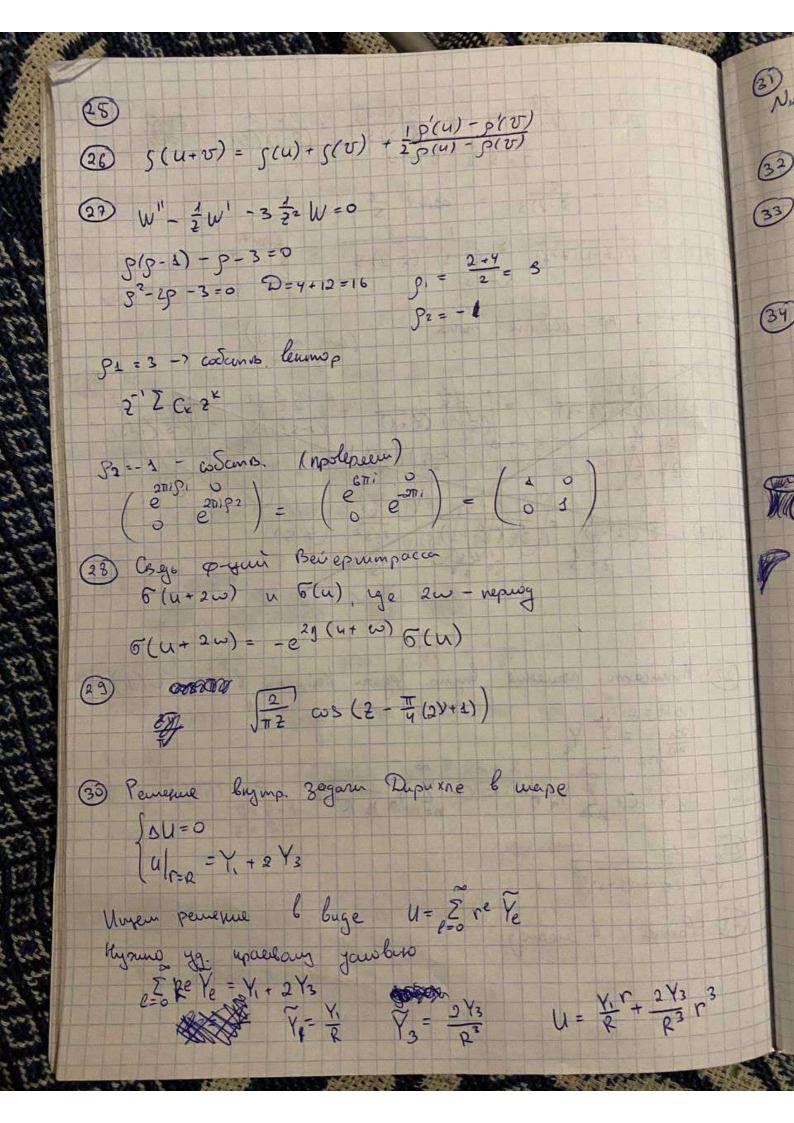
$$= n (n + 1)$$











(1-2) W)
$$\frac{1}{2}$$
 $\frac{1}{2}$ $\frac{1}{$

