(9) Техреног об аридиетических операциех над сход-ие посы-им. meop: Tyomo Ilim xn=a, Ilim yn=b a, b ∈ R, morga 1) 36im (xn+yn) = a+b = lim xn + lim yn n+00 (xn+yn) = a+b = lim xn + lim yn 2) YRER Flim (7 kn) = 7a = 7 lim xn 3) Ilim (xnyn) = ab = lim xn. lim yn D-ko: no megreme cynjeambyram 8. eu. noen-mu { da} u fBu} ∀n≥1, kn = a+dn, yn = b+ Bon. 1) xn+yn = a+6+dn+Bn, rge 8n=dn+Bn-8.24. => = lim (xn+yn) = a+6. 2) Axa = Ra + Rdn, rge { Rdn} S. ell (mo npaybeg-e 5. ufdn) no orpan. (2) => => I lim (2dn) = Ra
h->00 3) knyn = (a+dn)(6+Bn) = a6 + aBn + bdn + dn Bn = a6 + on, rige on = bdn + aBn+dnBn mo 8. el. 2> 3 lim (xn yn) = ab. meopeura: (npeg resemsiono) Ryomo { xn} { yn} gbe noen-mu, gun komopone Him kn=a, Him yn=b; 2) the N, yn+o, bto, morgan Flim kn = a = limkn 2-60: $y_n = a+dn$, $y_n = b+\beta n$, $\{dn\}_0$, $\{\beta n\}_0$ δ . ell. h. $8n = \frac{xn}{yn} - \frac{a}{b} = \frac{xnb - yna}{byn} = \frac{(a+dn)b - (b+pn)a}{byn} = \frac{ab+bdn-ab-apn}{byn}$ $=\frac{b\,dn}{b\,yn}-\frac{a\,\beta n}{b\,yn}=\frac{d\,n\cdot f}{yn}-\frac{a}{b\,yn}\cdot\beta n\Rightarrow \lim_{h\to o}y_n=b\,,\, b\neq 0\Longrightarrow \exists\,\, no\,\in\mathbb{N}\,,\, \forall\, n\geq ho$ 19/1 > 16/2 > 0 => | fm | <2 => Fell = max { 1/41) 1/21) " 1/2/ 1/2 | 6 > 0 Vreno franklight " 1 jed, Vneno fyn 2 de ello => morga nocueg. [fyn } orpanwren-s nocu-10; [-a] - orpan., m. K $\frac{dn \cdot 1}{yn}$, $\frac{-\alpha}{6yn}$, $\frac{\beta m}{5}$, $\frac{-3}{yn}$ $\frac{\lambda n}{6yn}$ $\frac{-\alpha}{6yn}$ $\frac{\lambda n}{yn}$ $\frac{-\alpha}{6}$ $\frac{-\alpha}{6}$ $\frac{\lambda n}{yn}$ $\frac{-\alpha}{6}$ $\frac{-\alpha}{6}$