4w1-8:

- 1) look at the graph and analyze points:

 Jog(ii) or f+g(ir) or f(ii)
- ② $f(u) = 5e^{x}$; $g(u) = n^{8}$ $fog(i) = 5e^{n^{8}}$ $\Rightarrow 5e^{i}$ $gof(i) = (5e^{n})^{8} \rightarrow 5^{8}e^{8}$ $fog(u) = 5e^{n^{8}}$ $gof(u) = (5e^{n})^{8}$ $f(t)g(t) = 5e^{t}t^{8}$
 - (6) $f(u) = \sqrt{2u-6} \neq q(u) = 7u^2-6$ (a) $f \circ q(u) = \sqrt{14u^2-12-6}$ $14u^2-17=0$; then $u = \sqrt{17}$ $14u^2 = 17=0$; $\frac{17}{14} = \frac{17}{14}$ $\frac{17}{14} = \frac{17}{14} = \frac{17}{14}$
 - (b) gof(n) = 7(an-6)-6 $14n-35-6 \Rightarrow \boxed{14n-41}$ $D_{f}: n6 \left[\frac{8}{8}, \infty\right]: D_{g}: n6 \left[\frac{8}{2}, \infty\right]$ $D_{gof} = n6 \left[\frac{8}{2}, \infty\right]$

- - (d) gog (n) = 7(7n²-6)²-6 domain hal lo be no R as {n∈R |n≠0}
 - 6 f(n)= \(\frac{1-u'}{2}\) \(\frac{1}{2}\) \(\frac{1}{26-u'} \) \(\frac{1}{2}\) \(\frac{1}{26-u'} \) \(\f
 - (a) f+g(n) = \(\frac{1-n+\36-n^2}{36-n^2}\)

 + f+g(n) find not common area
 - (b) f-g(u)= NI-n-N36-n2 Same domain: no [6,1]
 - © $f.g(n) = \sqrt{(1-n)(26-n^2)}$ where n = 1,-6.6 $\frac{1}{-6}$ from domain: $n \in [-6,1]$

Dfig(a) =
$$\sqrt{1-u}$$

The bottom can't be

 $u \in (-6,6)$ while

 $lop can't be \in [loo)$

then D: $u \in (-6,1]$

all domain are Save

- Ty=22: Sualizing the branchations
- (8) $f(u) = \sqrt{3u-u^2}$ Travelations: $g(u) = 2\sqrt{3(u-1)-(u-1)^2}$ $u(u) = -2\sqrt{3(u+3)(u+3)^2} + 2$
- (9) Moue F(n) match the following I same ar (10)
- 3 f(n)=-f(n); f(n)=f(n) N(n)=gof(n) it is evaluation