Subject	Grammar Formalisms
Homework	3
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1

 $\mathbf{a})$ 

She runs regularly in the park

Word	Cat
she	np
runs	$s \neq np$
regularly	$(s\np)\(s\np)$
in	$((s\np)\(s\np))/np$
the	np/n
park	n

$$\frac{\frac{\text{runs}}{\text{s} \setminus \text{np}}}{\frac{\text{regularly}}{\text{s} \setminus \text{np}}} = \frac{\frac{\text{lthe}}{\text{in}}}{\frac{\text{park}}{\text{np/n}}} = \frac{\frac{\text{lthe}}{\text{np/n}}}{\frac{\text{park}}{\text{np/n}}} = \frac{\frac{\text{lthe}}{\text{np/n}}}{\frac{\text{np/n}}{\text{np/n}}} = \frac{\frac{\text{park}}{\text{np/n}}}{\frac{\text{np/n}}{\text{np/n}}} = \frac{\frac{\text{lthe}}{\text{np/n}}}{\frac{\text{np/n}}{\text{np/n}}} = \frac{\frac{\text{park}}{\text{np/n}}}{\frac{\text{np/n}}{\text{np/n}}} = \frac{\frac{\text{lthe}}{\text{np/n}}}{\frac{\text{np/n}}{\text{np/n}}} = \frac{\frac{\text{l$$

b)

They named their son Stan and daughter Shelly

Word	Cat
they named their	$\begin{array}{c} np \\ ((s \backslash np)/np)/np \\ np/n \end{array}$
son daughter and	$\begin{array}{c} n \\ n \\ (X\backslash X)/X \end{array}$

Word	Cat
Shelly	np
Stan	np

$$\begin{array}{c|c} \hline \underline{they} \\ \hline np \\ \hline s/(s \setminus np) \\ \hline \end{array} \begin{array}{c} \hline \\ (s/np)/np \\ \hline \\ \hline \\ (s/np)/np \\ \hline \\ \hline \\ (s/np)/np \\ \hline \\ (s/np)/np \\ \hline \\ (s/np)/((s/np)/np) \\ \hline \\ (s/np)/(np) \\ ($$

**c**)

The wine that she bought gave me a headache

Word	Cat
The	np/n

Word	Cat
wine	n
that	$(np\np)/(s\np)$
she	np
bought	$(s\np)/np$
gave	$((s\np)/np)/np$
me	np
a	np/n
headache	n

$$\frac{\frac{\overline{she}}{np}}{np/n} (T) = \frac{\overline{bought}}{\frac{\overline{shp}}{(s \setminus np)/np}} (>B)$$

$$\frac{\overline{The}}{np/n} = \frac{\overline{m}}{n} (>) = \frac{\overline{that}}{(n \setminus n)/(s \setminus np)} = \frac{s/np}{n \setminus n} (>)$$

$$np = (>)$$

$$\overline{gave me a headache} = \frac{s \setminus np}{s} (<)$$

$$\frac{\overline{she}}{np/n} (>) = \frac{s/np}{n \setminus n} (>)$$

$$\overline{gave} = \frac{\overline{s \setminus np}}{((s \setminus np)/np)/np} (>) = \frac{\overline{n}}{np/n} = \frac{\overline{headache}}{np} (>)$$

$$\overline{(s \setminus np)/np} (>) = \frac{\overline{np/n}}{np} (>)$$

**d**)

The angry referee should watch and analyse the video

Word	Cat
The	np/n
angry	n/n
referee	n
should	$((s\np)/np)/((s\np)/np)$
watch	$(s\np)/np$
and	$((X\backslash X)/X)$

s\np

Word	Cat
analyse the	$(s\np)/np$ $np/n$
video	n

$$\frac{\frac{-1}{\mathrm{the}}}{\frac{\mathrm{np/n}}{\mathrm{np/n}}} = \frac{\frac{\mathrm{angry}}{\mathrm{n/n}}}{\frac{\mathrm{n}}{\mathrm{np}}} \stackrel{\mathrm{referee}}{\stackrel{(>)}{=}}$$

$$\frac{ \frac{\text{should watch and analyse}}{\text{should watch and analyse}} = \frac{\frac{\text{the}}{\text{np/n}} \frac{\text{video}}{\text{n}}}{\frac{\text{np}}{\text{odd}}} \\ \frac{(\text{s} \setminus \text{np})/\text{np}}{\text{s}} \frac{(\text{s} \setminus \text{np})}{\text{s}} (<)$$

2

Marshall persuaded Lily to fogive Barney

 $\mathbf{a})$ 

Object control since persuade is an object control verb.

b)

	persuaded	Lily	to forgive	Barney
	$\overline{((s\np)/(sto\np))/np: o p s. persuaded'(s, o, p(o))}$	np: lily'	$(\operatorname{sto} p)/\operatorname{np}: y x. \text{ forgive } (x,y)$	np: barney'
Marshall	$(s\np)/(sto\np): \p s. persuaded'(s, lily', p(lily'))$		sto\np: \x. forgive'(x, barney')	
np: marshall'	s\np: \s. persuaded'(s, lily', forgive'(lily', barney')			
s: persuaded'(marshall', lily', forgive'(lily', barney')				