Data analysis output

```
GLM Pretest Posttest BY Methods Gender
  /METHOD=SSTYPE(3)
  /INTERCEPT=INCLUDE
  /PRINT=DESCRIPTIVE
  /CRITERIA=ALPHA(.05)
  /DESIGN= Methods Gender Methods*Gender.
```

General Linear Model: RESEARCH QUESTION 1, 3, 5

```
[DataSet1] C:\Users\Askarju Musa\Desktop\M.ED PROJECT DATA.sav
```

Between-Subjects Factors

		Value Label	N
Methods	1	Intrinsic Motivation	50
	2	Extrinsic Motivation	50
Gender	1	Male	31
	2	Female	69

Descriptive Statistics

	Methods	Gender	Mean	Std. Deviation	N
Pretest	Intrinsic Motivation	Male	15.52	7.032	23
		Female	16.19	6.337	27
		Total	15.88	6.604	50
	Extrinsic Motivation	Male	22.75	10.124	8
		Female	21.74	7.828	42
		Total	21.90	8.127	50
	Total	Male	17.39	8.397	31
		Female	19.57	7.730	69
		Total	18.89	7.964	100
Posttest	Intrinsic Motivation	Male	16.26	5.002	23
		Female	20.33	6.720	27
		Total	18.46	6.277	50
	Extrinsic Motivation	Male	24.38	6.567	8
		Female	22.36	8.731	42
		Total	22.68	8.397	50
	Total	Male	18.35	6.437	31
		Female	21.57	8.014	69
		Total	20.57	7.674	100

```
DATASET ACTIVATE DataSet1.
SAVE OUTFILE='C:\Users\Askarju Musa\Desktop\M.ED PROJECT DATA.sav'
  /COMPRESSED.
GLM PretestInterest PosttestInterest BY Methods Gender
```

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```
  /METHOD=SSTYPE(3)
  /INTERCEPT=INCLUDE
  /PRINT=DESCRIPTIVE
  /CRITERIA=ALPHA(.05)
  /DESIGN= Methods Gender Methods*Gender.
```

General Linear Model: RESEARCH QUESTIONS 2, 4 AND 6

```
[DataSet1] C:\Users\Askarju Musa\Desktop\M.ED PROJECT DATA.sav
```

Between-Subjects Factors

		Value Label	N
Methods	1	Intrinsic Motivation	50
	2	Extrinsic Motivation	50
Gender	1	Male	31
	2	Female	69

Descriptive Statistics

	Methods	Gender	Mean	Std. Deviation	N	
PretestInterest	Intrinsic Motivation	Male	69.00	7.97724	23	RQ6
		Female	75.48	12.83736	27	RQ6
		Total	72.50	11.25448	50	RQ2
	Extrinsic Motivation	Male	72.87	11.28131	8	RQ6
		Female	79.30	11.71925	42	RQ6
		Total	78.28	11.78037	50	RQ2
	Total	Male	70.00	8.90693	31	RQ4
		Female	77.81	12.22134	69	RQ4
		Total	75.39	11.82438	100	
PosttestInterest	Intrinsic Motivation	Male	93.26	10.019	23	6
		Female	99.70	14.076	27	6
		Total	96.74	12.678	50	2
	Extrinsic Motivation	Male	88.13	13.010	8	6
		Female	95.55	12.300	42	6
		Total	94.36	12.582	50	2
	Total	Male	91.94	10.878	31	4
		Female	97.17	13.082	69	4
		Total	95.55	12.623	100	

```
UNIANOVA Posttest BY Methods Gender WITH Pretest
  /METHOD=SSTYPE(3)
  /INTERCEPT=INCLUDE
  /PLOT=PROFILE(Gender*Methods)
  /PRINT=ETASQ
```

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```
/CRITERIA=ALPHA(.05)
/DESIGN=Pretest Methods Gender Methods*Gender.
```

Univariate Analysis of Variance: HYPOTHESES 1, 3 AND 5

[DataSet1] C:\Users\Askarju Musa\Desktop\M.ED PROJECT DATA.sav

Between-Subjects Factors

		Value Label	N
Methods	1	Intrinsic Motivation	50
	2	Extrinsic Motivation	50
Gender	1	Male	31
	2	Female	69

Tab 2

Tests of Between-Subjects Effects

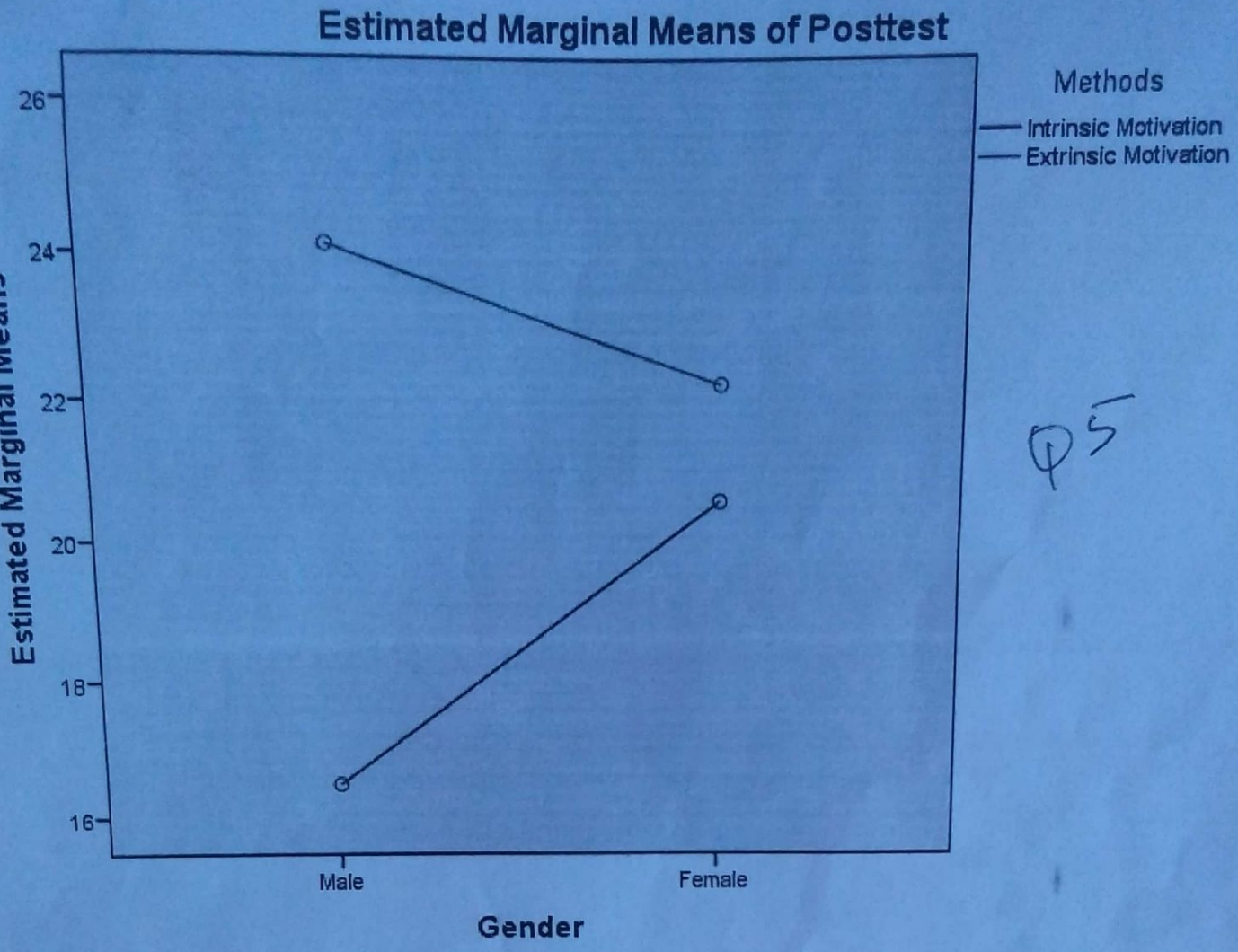
Dependent Variable: Posttest

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	704.491[a]	4	176.123	3.264	.015	.121
Intercept	4639.760	1	4639.760	85.988	.000	.475
Pretest	25.933	1	25.933	.481	.490	.005
Methods	329.278	1	329.278	6.102	.015	.060
Gender	18.843	1	18.843	.349	.556	.004
Methods * Gender	155.260	1	155.260	2.877	.093	.029
Error	5126.019	95	53.958			
Total	48143.000	100				
Corrected Total	5830.510	99				

a. R Squared = .121 (Adjusted R Squared = .084)

Profile Plots

CamScanner



Q5

Covariates appearing in the model are evaluated at the following values: Pretest = 18.89

```
UNIANOVA PosttestInterest BY Methods Gender WITH PretestInterest
  /METHOD=SSTYPE(3)
  /INTERCEPT=INCLUDE
  /PLOT=PROFILE(Gender*Methods)
  /PRINT=ETASQ
  /CRITERIA=ALPHA(.05)
  /DESIGN=PretestInterest Methods Gender Methods*Gender.
```

CamScanner

Univariate Analysis of Variance

[DataSet1] C:\Users\Askarju Musa\Desktop\M.ED PROJECT DATA.sav

Between-Subjects Factors

		Value Label	N
Methods	1	Intrinsic Motivation	50
	2	Extrinsic Motivation	50
Gender	1	Male	31
	2	Female	69

Hyp 2, 4 & 6.

Pg 4

Tests of Between-Subjects Effects

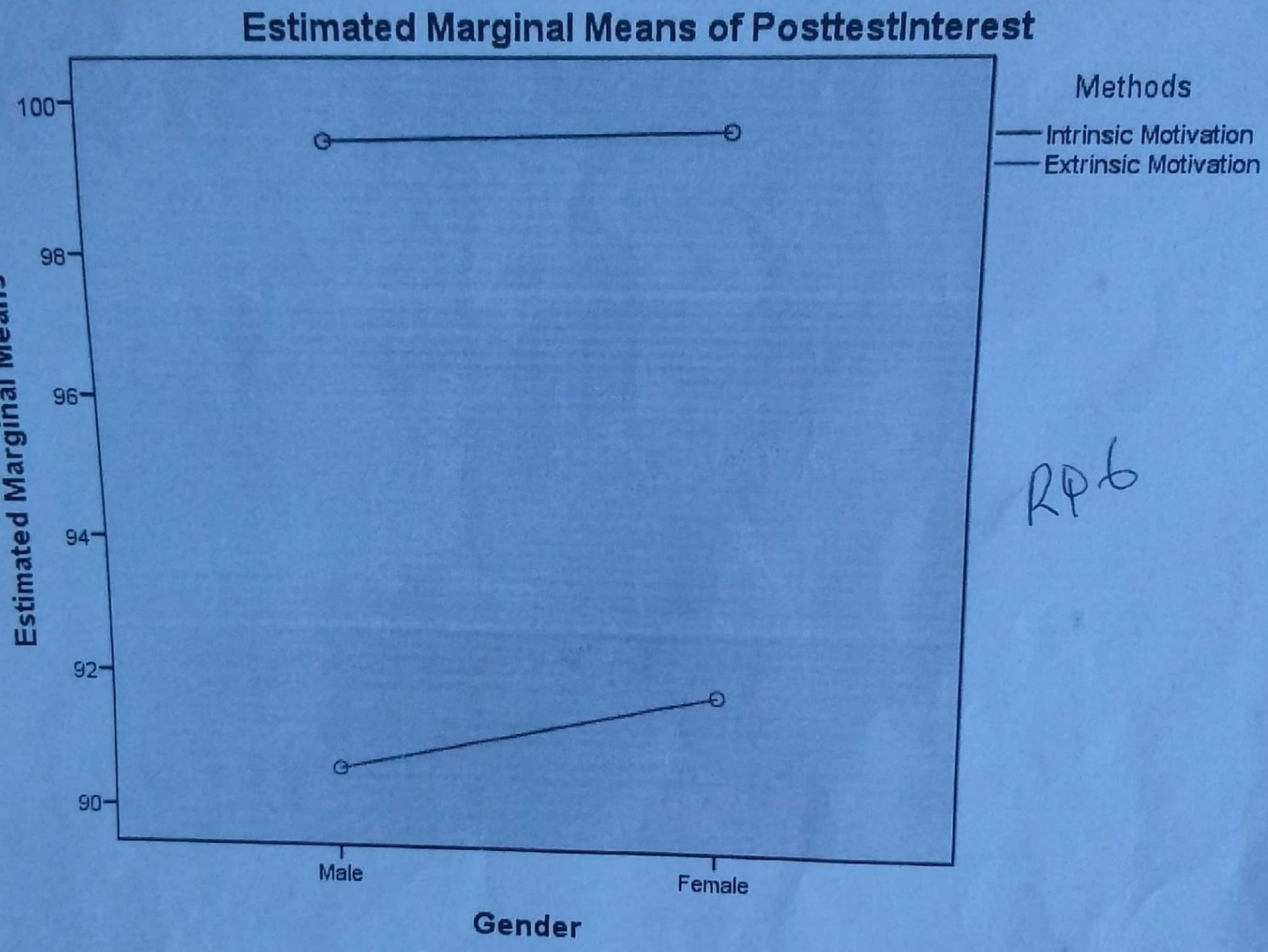
Dependent Variable: PosttestInterest

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Corrected Model	12661.407[a]	4	3165.352	96.587	.000	.803
Intercept	1017.717	1	1017.717	31.054	.000	.246
PretestInterest	11634.001	1	11634.001	354.998	.000	.789
Methods	1206.942	1	1206.942	36.828	.000	.279
Gender	6.492	1	6.492	.198	.657	.002
Methods * Gender	4.587	1	4.587	.140	.709	.001
Error	3113.343	95	32.772			
Total	928755.000	100				
Corrected Total	15774.750	99				

a. R Squared = .803 (Adjusted R Squared = .794)

CamScanner

Profile Plots



RP6

Covariates appearing in the model are evaluated at the following values: PretestInterest = 75.3900

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