```
>> mdl = fitlm(P.pl eqt, P)
Error using classreq.regr.FitObject/selectVariables (line 351)
Response variable must be a numeric vector.
Error in classreg.regr.TermsRegression/selectVariables (line 259)
            model = selectVariables@classreg.regr.ParametricRegression(model);
Error in classreg.regr.FitObject/doFit (line 91)
           model = selectVariables(model);
Error in LinearModel.fit (line 1043)
           model = doFit(model);
Error in fitlm (line 121)
model = LinearModel.fit(X, varargin(:));
>> pl_eqt = P.pl_eqt;
>> mdl = fitlm(pl_eqt, P)
Error using classreq.regr.FitObject/selectVariables (line 351)
Response variable must be a numeric vector.
Error in classreg.regr.TermsRegression/selectVariables (line 259)
            model = selectVariables@classreg.regr.ParametricRegression(model);
Error in classreg.regr.FitObject/doFit (line 91)
            model = selectVariables(model);
Error in LinearModel.fit (line 1043)
            model = doFit(model);
Error in fitlm (line 121)
model = LinearModel.fit(X, varargin(:));
>> mdl = fitlm(P, 'pl_eqt~sy_snum+sy_pnum+discoverymethod+disc_year+st_mass+st_rad')
Warning: Regression design matrix is rank deficient to within machine precision.
> In classreg.regr/CompactTermsRegression/checkDesignRank (line 35)
In LinearModel.fit (line 1048)
In fitlm (line 121)
mdl =
Linear regression model:
   pl_eqt ~ 1 + sy_snum + sy_pnum + discoverymethod + disc_year + st_rad + st_mass
Estimated Coefficients:
                                                                            tStat≰
                                                      Estimate
                                                                    SE
pValue
```

(Intercept)	0	0	NaN≰
NaN			
sy_snum	0.74079	34.089	0.021731≰
0.98267			
sy_pnum	-71.402	11.784	-6.0593 ∠
2.1606e-09			
discoverymethod_Disk Kinematics	0	0	NaN≰
NaN			
<pre>discoverymethod_Eclipse Timing Variations</pre>	0	0	NaN≰
NaN			
discoverymethod_Imaging	24319	8891.5	2.735 ∠
0.006384			
discoverymethod_Microlensing	0	0	NaN✔
NaN			
discoverymethod_Orbital Brightness Modulation	24602	8901.4	2.7638≰
0.0058523			
discoverymethod_Pulsar Timing	0	0	NaN≰
NaN			
discoverymethod_Pulsation Timing Variations	0	0	NaN≰
NaN			
discoverymethod_Radial Velocity	23631	8909.8	2.6522
0.0081655			
discoverymethod_Transit	23917	8908.3	2.6848 🗹
0.0074165			
discoverymethod_Transit Timing Variations	0	0	NaN≰
NaN			
discoverymethod_Timing Variation	23299	8905.5	2.6162
0.0090688			
disc_year	-11.732	4.4132	-2.6583 ⊭
0.0080205			
st_rad	-15.212	40.473	-0.37586 ≰
0.70713			
st_mass	1037.2	70.551	14.701 🗸
3.4226e-43			

```
Number of observations: 769, Error degrees of freedom: 759

Root Mean Squared Error: 380

R-squared: 0.531, Adjusted R-Squared: 0.525

F-statistic vs. constant model: 95.4, p-value = 2.12e-118

>> mdl = fitlm(P, 
'pl_eqt~sy_snum+sy_pnum+discoverymethod+disc_year+pl_orbper+pl_orbsmax+pl_rade+pl_bmass
e+pl_orbeccen+pl_insol+st_teff+st_mass+st_rad')

Warning: Regression design matrix is rank deficient to within machine precision.

> In classreg.regr/CompactTermsRegression/checkDesignRank (line 35)

In LinearModel.fit (line 1048)

In fitlm (line 121)
```

mdl =

Linear regression model:

pl_eqt ~ 1 + sy_snum + sy_pnum + discoverymethod + disc_year + pl_orbper + \checkmark pl_orbsmax + pl_rade + pl_bmasse + pl_orbeccen + pl_insol + st_teff + st_rad + st_mass

2002	Estimate	SE	tStat≰
pValue			V
(Intercept)	17102	19922	0.85848
0.39279	-28.899	44.68	-0.6468
sy_snum 0.51932	-28.899	44.68	-0.6468 k
sy_pnum 0.51051	-11.392	17.247	-0.66053 ∠
discoverymethod Disk Kinematics	0	0	NaN≰
NaN			
<pre>discoverymethod_Eclipse Timing Variations NaN</pre>	0	0	NaN≰
discoverymethod_Imaging	0	0	NaN≰
NaN discoverymethod Microlensing	0	0	NaN✔
NaN			
discoverymethod_Orbital Brightness Modulation NaN	0	0	NaN≰
discoverymethod_Pulsar Timing	0	0	NaN≰
NaN discoverymethod Pulsation Timing Variations	0	0	NaN✔
NaN	O	0	Nan=
<pre>discoverymethod_Radial Velocity 0.49765</pre>	-55.244	81.145	-0.6808 ∠
discoverymethod Transit	0	0	NaNば
NaN			
<pre>discoverymethod_Transit Timing Variations NaN</pre>	0	0	NaN⊭
discoverymethod Timing Variation	0	0	NaN✔
NaN	-	-	
disc_year	-8.5026	9.8499	-0.86321 ∠
0.39019 pl orbper	2.1272	0.32892	6.4672 ∠
4.3033e-09	2.12/2	0.32032	0.4072=
pl_orbsmax	-1983.5	235.82	-8.411 ∠
4.0688e-13			,
pl_rade	19.546	5.0304	3.8856▶
0.0001888	_0 026747	0 021602	-0.84421 ∠
pl_bmasse 0.40067	-0.026747	0.031683	-U.044ZI K

pl_orbeccen	-67.234	213.51	-0.31491
0.75352 pl_insol	0.035805	0.0058585	6.1117
2.1653e-08 st_teff	0.14914	0.066207	2.2527 ∠
0.026579 st_rad	218.33	105.32	2.073 ∠
0.040879 st_mass 0.56361	170.98	295.03	0.57952

Number of observations: 119, Error degrees of freedom: 105

Root Mean Squared Error: 200

R-squared: 0.899, Adjusted R-Squared: 0.887

F-statistic vs. constant model: 72, p-value = 3.85e-46

>> mdl = fitlm(P, /

'pl_eqt~discoverymethod+disc_year+pl_orbper+pl_orbsmax+pl_rade+pl_bmasse+pl_orbeccen+pl\('\)
_insol+st_teff+st_mass+st_rad')

Warning: Regression design matrix is rank deficient to within machine precision.

> In classreg.regr/CompactTermsRegression/checkDesignRank (line 35)

In LinearModel.fit (line 1048)

In fitlm (line 121)

mdl =

Linear regression model:

pl_eqt ~ 1 + discoverymethod + disc_year + pl_orbper + pl_orbsmax + pl_rade + \checkmark pl bmasse + pl orbeccen + pl insol + st teff + st rad + st mass

	Estimate	SE	tStat ⊭
pValue			✓
(Intercept)	11520	17943	0.64204 🗸
0.52236			
discoverymethod Disk Kinematics	0	0	NaN≰
NaN			
discoverymethod_Eclipse Timing Variations	0	0	NaN≰
NaN			
discoverymethod_Imaging	0	0	NaN≰
NaN			
discoverymethod_Microlensing	0	0	NaN≰
NaN			
discoverymethod_Orbital Brightness Modulation	0	0	NaN✔
NaN			
discoverymethod_Pulsar Timing	0	0	NaN≰

NaN			
discoverymethod_Pulsation Timing Variations	0	0	NaN≰
NaN	(2,0(2	77 065	-0.80862
<pre>discoverymethod_Radial Velocity 0.42071</pre>	-62.963	77.865	-U.8U862 k
discoverymethod_Transit	0	0	NaN≰
NaN	0	O	nan -
discoverymethod Transit Timing Variations	0	0	NaN≰
NaN	-	-	
discoverymethod Timing Variation	0	0	NaN≰
NaN			
disc_year	-5.7897	8.8931	-0.65103
0.51656			
pl_orbper	2.1621	0.32458	6.6612 ∠
1.644e-09			
pl_orbsmax	-2002.3	233.4	-8.5785 ∠
1.5592e-13			
pl_rade	20.762	4.604	4.5095⊭
1.8204e-05			
pl_bmasse	-0.031503	0.031026	-1.0154 ∠
0.31246	FO 176	211 21	0 00745.
pl_orbeccen 0.81281	-50.176	211.31	-0.23745 ∠
pl insol	0.034159	0.0054971	6.2141 ∠
1.2922e-08	0.034139	0.0034971	0.2141 E
st teff	0.15631	0.064943	2.4068
0.017984	0.13031	0.004545	2.4000=
st rad	212.34	102.87	2.0641
0.041682	212.01	102.07	2.0011-
st mass	184.18	292.54	0.6296≰
0.53044	. , _ •		-

```
Number of observations: 119, Error degrees of freedom: 107

Root Mean Squared Error: 199

R-squared: 0.898, Adjusted R-Squared: 0.888

F-statistic vs. constant model: 86, p-value = 6.49e-48

>> mdl = fitlm(P, 
'pl_eqt~discoverymethod+disc_year+pl_orbper+pl_orbsmax+pl_rade+pl_bmasse+pl_orbeccen+st
_teff+st_mass+st_rad')

Warning: Regression design matrix is rank deficient to within machine precision.

> In classreg.regr/CompactTermsRegression/checkDesignRank (line 35)

In LinearModel.fit (line 1048)

In fitlm (line 121)

mdl =
```

pl_bmasse + pl_orbeccen + st_teff + st_rad + st_mass

pValue	Estimate	SE	tStat ⊭
pvarae			
(Intercept)	0	0	NaN⊌
NaN discoverymethod_Disk Kinematics	0	0	NaN⊭
NaN discoverymethod_Eclipse Timing Variations	0	0	NaN⊌
NaN discoverymethod_Imaging	0	0	NaN⊌
NaN discoverymethod_Microlensing NaN	0	0	NaN⊄
discoverymethod_Orbital Brightness Modulation NaN	0	0	NaN✔
discoverymethod_Pulsar Timing NaN	0	0	NaN ⊭
discoverymethod_Pulsation Timing Variations	0	0	NaN⊭
<pre>discoverymethod_Radial Velocity 0.96818</pre>	330.61	8281.6	0.03992
<pre>discoverymethod_Transit 0.97129</pre>	298.11	8277.2	0.036015
<pre>discoverymethod_Transit Timing Variations NaN</pre>	0	0	NaN⊭
<pre>discoverymethod_Timing Variation NaN</pre>	0	0	NaN⊌
disc_year 0.95342	-0.23945	4.0966	-0.05845 Ľ
pl_orbper 4.2977e-34	3.3395	0.24773	13.481
pl_orbsmax 1.7222e-46	-2892.9	175.23	-16.509 k
pl_rade 1.2169e-10		3.1165	
pl_bmasse 0.38139	-0.01828	0.020859	
pl_orbeccen 0.00048871	-344.78	98.021	-3.5175 ∠ 3.6794 ∠
st_teff 0.00026771	0.17128	0.04655	
st_rad 0.06877	119.97 360.04	65.734 192.09	
st_mass 0.061653	300.04	⊥ ୬∠ • U ୬	1.0/44

Number of observations: 399, Error degrees of freedom: 388

Root Mean Squared Error: 252

R-squared: 0.788, Adjusted R-Squared: 0.782

F-statistic vs. constant model: 144, p-value = 7.69e-124

>> mdl = fitlm(P, **/**

'pl_eqt~pl_orbser+pl_orbsmax+pl_rade+pl_bmasse+pl_orbeccen+st_teff+st_mass+st_rad')

mdl =

Linear regression model:

pl_eqt ~ 1 + pl_orbper + pl_orbsmax + pl_rade + pl_bmasse + pl_orbeccen + st_teff + \checkmark st_rad + st_mass

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-181.56	124.38	-1.4598	0.14515
pl_orbper	3.3316	0.24531	13.581	1.1317e-34
pl_orbsmax	-2885.5	173.18	-16.661	1.8687e-47
pl_rade	20.488	3.0516	6.7139	6.7081e-11
pl_bmasse	-0.018438	0.020752	-0.88849	0.37483
pl_orbeccen	-344.4	97.504	-3.5321	0.00046154
st_teff	0.17084	0.046155	3.7014	0.00024522
st_rad	118.68	65.494	1.812	0.070752
st_mass	362.63	190.77	1.9008	0.058064

Number of observations: 399, Error degrees of freedom: 390

Root Mean Squared Error: 251

R-squared: 0.787, Adjusted R-Squared: 0.783

F-statistic vs. constant model: 181, p-value = 4.59e-126

>> mdl = fitlm(P, <

'pl_eqt~pl_orbper+pl_orbsmax+pl_rade+pl_orbeccen+st_teff+st_mass+st_rad')

mdl =

Linear regression model:

pl_eqt ~ 1 + pl_orbper + pl_orbsmax + pl_rade + pl_orbeccen + st_teff + st_rad + \checkmark st_mass

	Estimate	SE	tStat	pValue
(Intercept)	-186.78	115.17	-1.6219	0.10557

```
3.1545
                        0.22207
                                 14.205
                                          8.3148e-38
pl orbper
pl orbsmax
             -2717.3
                        153.58
                                 -17.693
                                           5.347e-53
                                           2.907e-14
pl rade
             21.516
                        2.7337
                                  7.8706
                        91.616 -3.6746 0.00026841
pl orbeccen
            -336.65
                                          9.5131e-05
                                 3.9399
st teff
           0.17138
                      0.043498
             110.11
                        62.204
                                  1.7702
                                            0.077412
st rad
             344.93
                         180.89
                                 1.9069
                                             0.057204
st mass
```

Number of observations: 437, Error degrees of freedom: 429

Root Mean Squared Error: 247

R-squared: 0.803, Adjusted R-Squared: 0.799

F-statistic vs. constant model: 249, p-value = 9.42e-147

>> mdl = fitlm(P, 'pl_eqt~pl_orbper+pl_orbsmax+pl_rade+pl_orbeccen+st_teff+st_mass')

mdl =

Linear regression model:

pl eqt ~ 1 + pl orbper + pl orbsmax + pl rade + pl orbeccen + st teff + st mass

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-124.58	109.95	-1.1331	0.25781
pl_orbper	3.2142	0.22004	14.607	1.5821e-39
pl_orbsmax	-2731.7	153.75	-17.767	2.329e-53
pl_rade	21.538	2.7405	7.8592	3.1336e-14
pl_orbeccen	-331.33	91.793	-3.6095	0.00034289
st_teff	0.13936	0.039657	3.5141	0.00048797
st_mass	580.97	122.53	4.7414	2.8907e-06

Number of observations: 437, Error degrees of freedom: 430

Root Mean Squared Error: 247

R-squared: 0.801, Adjusted R-Squared: 0.798

F-statistic vs. constant model: 289, p-value = 2.52e-147

>> mdl = fitlm(P, 'pl_eqt~pl_orbper+pl_orbsmax+pl_rade+st_teff+st_mass')

mdl =

Linear regression model:

pl eqt ~ 1 + pl orbper + pl orbsmax + pl rade + st teff + st mass

Estimated Coefficients:

Estimate SE tStat pValue

87.084

-0.46782

0.64006

-40.739

(Intercept)

(Intercept)	-40.739	0/.004	-0.46762	0.04000	
pl orbper	3.725	0.20667	18.024	8.3472e-60	
pl orbsmax	-3094.2	140.51	-22.022	8.321e-82	
pl rade					
st teff	0 10412				
st mass					
SC_Mass	070.00	102.42	0.5420	1.17026-10	
Number of observa	tions: 696.	Error dearee	s of freedom	• 690	
Root Mean Squared			5 01 110000		
R-squared: 0.776,		-Samared. A	771		
F-statistic vs. c				221	
>> mdl = fitlm(P,					
	_		_	_	
Error using class			_		
Unable to underst			-	calar k	
'pl_eqt~+pl_orbsm	ax+pl_rade+s	t_teff+st_ma	ss'.		
Error in classreg	rear Formul	aProcessor (line 374)		
=	=		(f, modelSpec):	
L	1.501/1.0100	.j parseser	(1) moderapee	, ,	
Error in classreg	regr.Linear	Formula (lin	e 48)		
=	=		ocessor(vara	rgin{:});	
	- 5	,	,		
Error in classreg	regr.TermsR	egression.cr	eateFormula	(line 709)	
-				mula(modelDef,varNames	, '', 🗹
<pre>intercept,link);</pre>		3	_		
1 , , , ,					
Error in LinearMo	del.createFc	rmula (line	1054)		
formu	la = classre	g.regr.Terms	Regression.c	reateFormula(supplied,	modelDef, 🗸
			-		
Error in LinearMo	del.fit (lin	e 1036)			
model	.Formula = I	inearModel.c	reateFormula	(supplied, modelDef, X,	
Error in fitlm (1	ine 121)				
model = LinearMod	lel.fit(X,var	rargin{:});			
>> mdl = fitlm(P,	'pl_eqt~pl_	orbsmax+pl_r	ade+st_teff+	st_mass')	
mdl =					
Linear regression					
$pl_eqt \sim 1 +$	pl_orbsmax +	pl_rade + s	t_teff + st_	mass	
Estimated Coeffic					
	Estimate	SE	tStat	pValue	
(Intercept)	-58.449	113.09	-0.51684	0.60544	
(Incercebe)	-30.449	113.09	-0.51004	0.00044	

pl_orbsmax	-10.739	3.8252	-2.8074	0.0051348
pl_rade	34.557	2.8418	12.16	5.6548e-31
st_teff	0.057226	0.041598	1.3757	0.16936
st mass	614.94	136.34	4.5103	7.6026e-06

Number of observations: 698, Error degrees of freedom: 693

Root Mean Squared Error: 351

R-squared: 0.591, Adjusted R-Squared: 0.588

F-statistic vs. constant model: 250, p-value = 7.13e-133

>> mdl = fitlm(P, 'pl eqt~pl orbper+pl orbsmax+pl rade+st teff+st mass')

mdl =

Linear regression model:

pl_eqt ~ 1 + pl_orbper + pl_orbsmax + pl_rade + st_teff + st_mass

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-40.739	87.084	-0.46782	0.64006
pl_orbper	3.725	0.20667	18.024	8.3472e-60
pl_orbsmax	-3094.2	140.51	-22.022	8.321e-82
pl_rade	22.29	2.1844	10.204	7.2359e-23
st_teff	0.10412	0.031798	3.2743	0.0011123
st mass	670.08	102.42	6.5426	1.1782e-10

Number of observations: 696, Error degrees of freedom: 690

Root Mean Squared Error: 260

R-squared: 0.776, Adjusted R-Squared: 0.774

F-statistic vs. constant model: 477, p-value = 3.36e-221

>> mdl = fitlm(P, 'pl eqt~pl orbper+pl orbsmax+pl rade+pl orbeccen+st teff+st mass')

mdl =

Linear regression model:

pl_eqt ~ 1 + pl_orbper + pl_orbsmax + pl_rade + pl_orbeccen + st_teff + st_mass

Estimate	SE	tStat	pValue
-124.58	109.95	-1.1331	0.25781
3.2142	0.22004	14.607	1.5821e-39
-2731.7	153.75	-17.767	2.329e-53
21.538	2.7405	7.8592	3.1336e-14
	-124.58 3.2142 -2731.7	-124.58 109.95 3.2142 0.22004 -2731.7 153.75	-124.58 109.95 -1.1331 3.2142 0.22004 14.607 -2731.7 153.75 -17.767

```
pl_orbeccen -331.33 91.793 -3.6095 0.00034289
st_teff 0.13936 0.039657 3.5141 0.00048797
st_mass 580.97 122.53 4.7414 2.8907e-06
```

Number of observations: 437, Error degrees of freedom: 430

Root Mean Squared Error: 247

R-squared: 0.801, Adjusted R-Squared: 0.798

F-statistic vs. constant model: 289, p-value = 2.52e-147

- >> plotResiduals(mdl)
- >> plotResiduals(mdl, 'probability')
- >> plotResiduals(mdl, 'fitted')
- >> mdl = fitlm(P, /

'pl_eqt~pl_orbper+pl_orbsmax+pl_rade+pl_orbeccen+st_teff+st_mass+pl_orbsmax^2')

mdl =

Linear regression model:

pl_eqt ~ 1 + pl_orbper + pl_orbsmax + pl_rade + pl_orbeccen + st_teff + st_mass + ν pl orbsmax^2

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-105.14	105.08	-1.0006	0.3176
pl_orbper	7.714	0.72448	10.648	1.1946e-23
pl_orbsmax	-3909.2	233.44	-16.747	8.4173e-49
pl_rade	18.858	2.6505	7.1147	4.7353e-12
pl_orbeccen	-284.47	87.992	-3.2329	0.0013201
st_teff	0.13253	0.037901	3.4968	0.00051995
st_mass	669.4	117.85	5.68	2.4872e-08
pl_orbsmax^2	-571.31	88.026	-6.4903	2.3693e-10

Number of observations: 437, Error degrees of freedom: 429

Root Mean Squared Error: 236

R-squared: 0.819, Adjusted R-Squared: 0.816

F-statistic vs. constant model: 277, p-value = 8.87e-155

>> mdl = fitlm(P, <

'pl_eqt~pl_orbsmax+pl_rade+pl_orbeccen+st_teff+st_mass+pl_orbsmax^2+pl_orbsmax✓x^3')

mdl =

Linear regression model:

pl_eqt ~ 1 + pl_orbper + pl_orbsmax + pl_rade + pl_orbeccen + st_teff + st_mass + pl_orbsmax^2 + pl_orbsmax^3

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-98.578	99.444	-0.99129	0.3221
pl_orbper	3.9264	0.86664	4.5306	7.6397e-06
pl_orbsmax	-4190.3	224.38	-18.675	2.3246e-57
pl_rade	16.201	2.5356	6.3894	4.3523e-10
pl_orbeccen	-249.96	83.409	-2.9968	0.0028872
st_teff	0.14646	0.03592	4.0774	5.4302e-05
st_mass	646.92	111.57	5.7984	1.3021e-08
pl_orbsmax^2	1332.3	279.15	4.7727	2.4985e-06
pl_orbsmax^3	-260.18	36.415	-7.1448	3.9067e-12

Number of observations: 437, Error degrees of freedom: 428

Root Mean Squared Error: 224

R-squared: 0.838, Adjusted R-Squared: 0.835

F-statistic vs. constant model: 277, p-value = 5.54e-164

>> plotResiduals(mdl, 'fitted')

>> mdl = fitlm(P, **/**

'pl_eqt~pl_orbper+pl_orbsmax+pl_rade+pl_orbeccen+st_teff+st_mass+pl orbsmax^3')

mdl =

Linear regression model:

pl_eqt ~ 1 + pl_orbper + pl_orbsmax + pl_rade + pl_orbeccen + st_teff + st_mass + ν pl orbsmax^2 + pl orbsmax^3

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-98.578	99.444	-0.99129	0.3221
pl_orbper	3.9264	0.86664	4.5306	7.6397e-06
pl_orbsmax	-4190.3	224.38	-18.675	2.3246e-57
pl_rade	16.201	2.5356	6.3894	4.3523e-10
pl_orbeccen	-249.96	83.409	-2.9968	0.0028872
st_teff	0.14646	0.03592	4.0774	5.4302e-05
st_mass	646.92	111.57	5.7984	1.3021e-08
pl_orbsmax^2	1332.3	279.15	4.7727	2.4985e-06
pl_orbsmax^3	-260.18	36.415	-7.1448	3.9067e-12

Number of observations: 437, Error degrees of freedom: 428

Root Mean Squared Error: 224

R-squared: 0.838, Adjusted R-Squared: 0.835

F-statistic vs. constant model: 277, p-value = 5.54e-164

>> mdl = fitlm(P, <

'pl eqt~pl orbper+pl orbsmax+pl orbeccen+st teff+st mass+pl orbsmax^3')

mdl =

Linear regression model:

pl_eqt ~ 1 + pl_orbper + pl_orbsmax + pl_orbeccen + st_teff + st_mass + \checkmark pl_orbsmax^2 + pl_orbsmax^3

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-155.87	111.65	-1.3961	0.16335
pl_orbper	2.522	0.57623	4.3767	1.4853e-05
pl_orbsmax	-2410.7	168.55	-14.302	8.5911e-39
pl_orbeccen	-300.46	99.943	-3.0063	0.0027855
st_teff	0.13306	0.039478	3.3705	0.00081214
st_mass	830.22	117	7.0962	4.7417e-12
pl_orbsmax^2	140.9	91.685	1.5368	0.12501
pl orbsmax^3	-12.25	3.0089	-4.0713	5.4831e-05

Number of observations: 479, Error degrees of freedom: 471

Root Mean Squared Error: 282

R-squared: 0.755, Adjusted R-Squared: 0.751

F-statistic vs. constant model: 207, p-value = 2.07e-139

>> mdl = fitlm(P, <

'pl_eqt~pl_orbser+pl_orbsmax+pl_rade+pl_orbeccen+st_teff+st_mass+pl_orbsmax^3')

mdl =

Linear regression model:

pl_eqt ~ 1 + pl_orbper + pl_orbsmax + pl_rade + pl_orbeccen + st_teff + st_mass + \checkmark pl orbsmax^2 + pl orbsmax^3

	Estimate	SE	tStat	pValue
(Intercept)	-98.578	99.444	-0.99129	0.3221
pl_orbper	3.9264	0.86664	4.5306	7.6397e-06
pl_orbsmax	-4190.3	224.38	-18.675	2.3246e-57
pl_rade	16.201	2.5356	6.3894	4.3523e-10
pl_orbeccen	-249.96	83.409	-2.9968	0.0028872
st_teff	0.14646	0.03592	4.0774	5.4302e-05
st_mass	646.92	111.57	5.7984	1.3021e-08
pl_orbsmax^2	1332.3	279.15	4.7727	2.4985e-06

```
pl_orbsmax^3 -260.18 36.415 -7.1448 3.9067e-12

Number of observations: 437, Error degrees of freedom: 428
Root Mean Squared Error: 224
R-squared: 0.838, Adjusted R-Squared: 0.835
F-statistic vs. constant model: 277, p-value = 5.54e-164
>> get(0,'Diary')
ans =
   'off'
```

>>