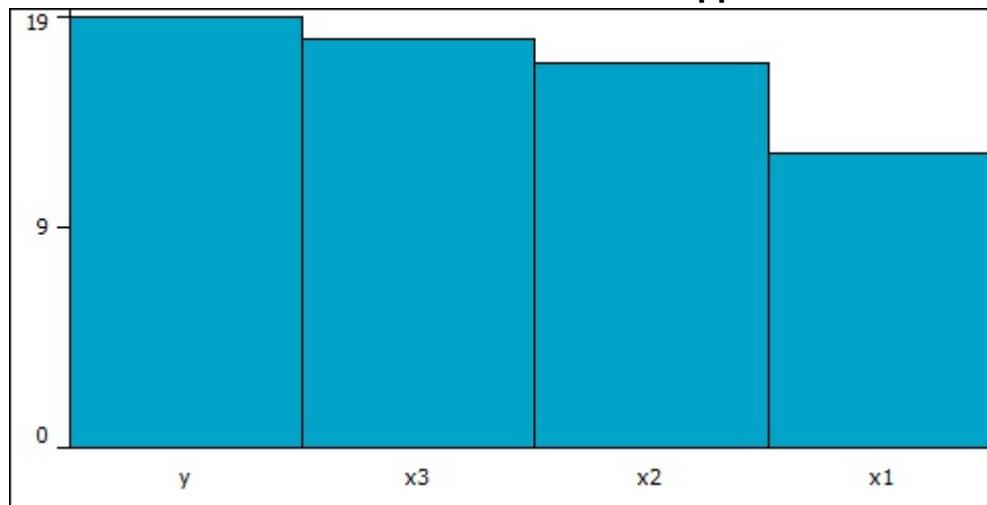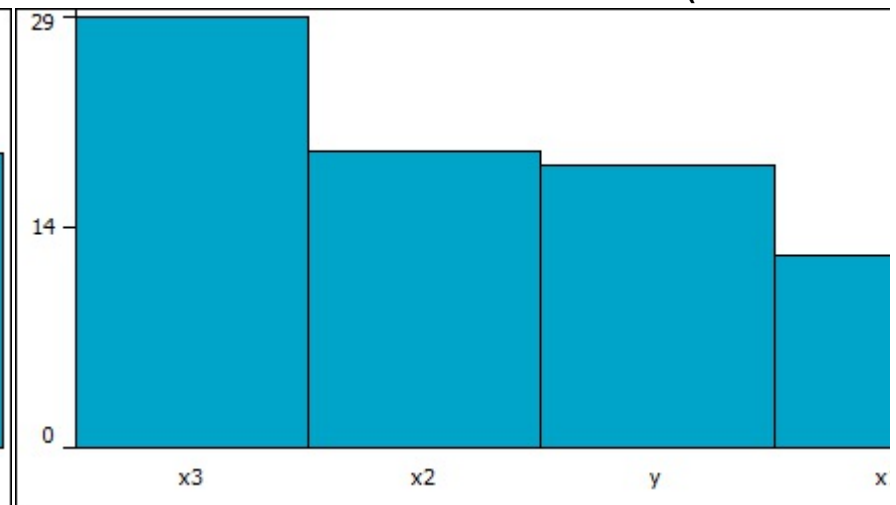# Eureqa Models

Variable Occurrences

Number of Models each variable appears in

Number of Occurrences of each variable (across all models)
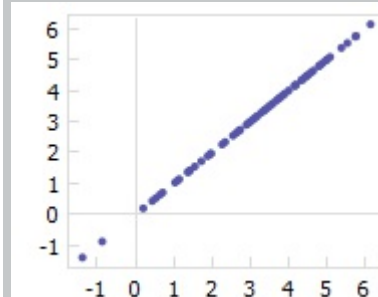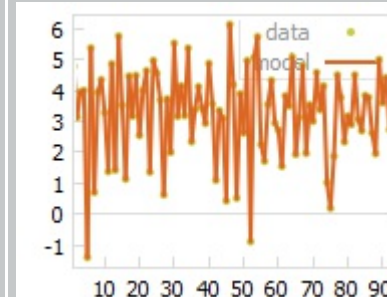

Model List

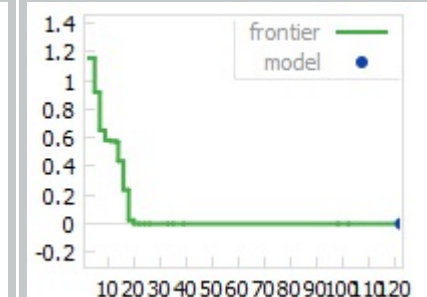| Model	Observed vs. Predicted	Output vs. Row	Error/Complexity Pareto
Model: $y = a + b*x3 + c*sqrt(d + x3) + e*cos(f + g*sqrt(h + x3) + x3^2*cos(i + \log(x2))) + \log(x2) + \cos(j*x1)$ **Text:** `y = 0.0300004023779062 + 2.78171358860273e-7*x3 + 0.999999033945088*sqrt(4 .53111831770879e-7 + x3)`			

```
+
2.78171358860273e-7*cos(
5.67600208257221 +
0.132835750446086*sqrt(4
.53111831770879e-7 + x3)
+
x3^2*cos(0.0300004023779
062 + log(x2))) +
log(x2) +
cos(2.00000016077551*x1)
```

Model: $y = a + b*\textit{x3} + c*\text{sqrt}(d + \textit{x3}) + e*\cos(f + \textit{x3}^2*\cos(g + \log(\textit{x2}))) + \log(\textit{x2}) + \cos(h*\textit{x1})$

Text:
```
y = 0.0300003940326558 +
2.78171358860273e-7*x3 +
0.999999033945088*sqrt(4
.75767423359423e-7 + x3)
+
2.78171358860273e-7*cos(
6.02818068226866 +
x3^2*cos(0.0300003940326
558 + log(x2))) +
log(x2) +
cos(2.00000016077551*x1)
```
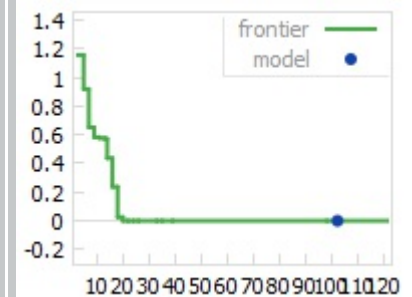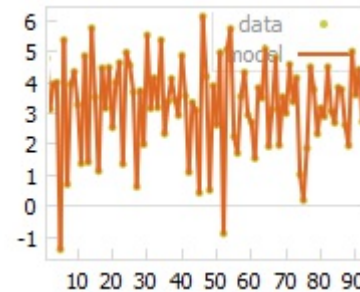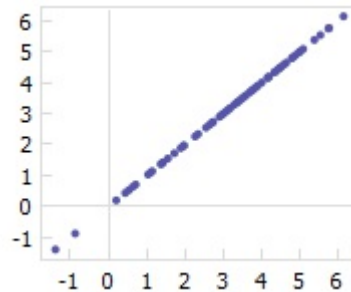
Model: $y = a + b*x3 + c*\text{sqrt}(d + x3) + e*\cos(x3^2*\cos(f + \log(x2))) + \log(x2) + \cos(g*x1)$

Text:
```
y = 0.0300003940326558 +
2.78171358860273e-7*x3 +
0.999999033945088*sqrt(4
.53111831770879e-7 + x3)
+
2.78171358860273e-7*cos(
x3^2*cos(0.0355256842187
949 + log(x2))) +
log(x2) +
cos(2.00000016077551*x1)
```
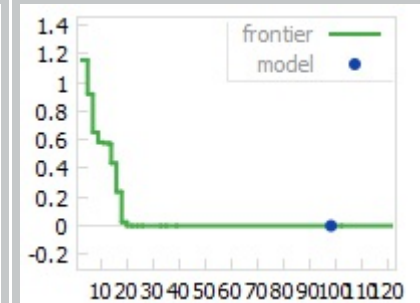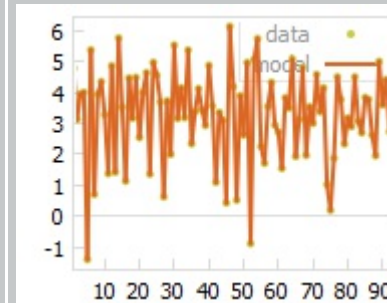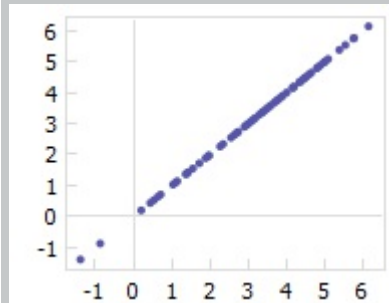

Model: $y = a + b*x3 + c*\log(x2) + d*\text{sqrt}(e + x3) + f*\cos(g*x3) + \cos(h*x1)$

Text:
```
y = 0.030000380250981 +
2.64925103676451e-7*x3 +
1.0000001036781*log(x2)
+
0.999999033945088*sqrt(4
.53111831770879e-7 + x3)
+
2.78171358860273e-7*cos(
7.89318201945192*x3) +
cos(2.00000016077551*x1)
```
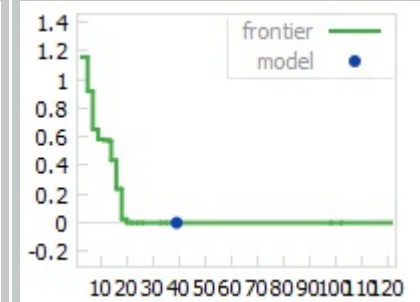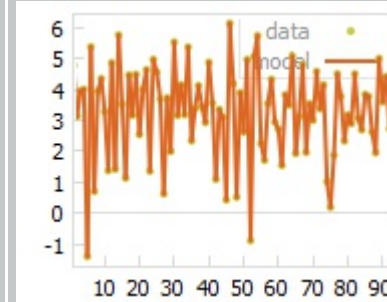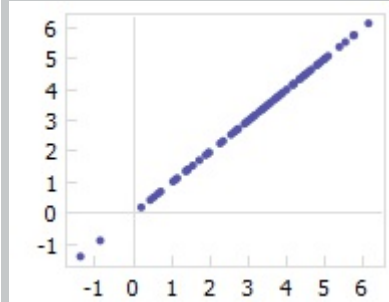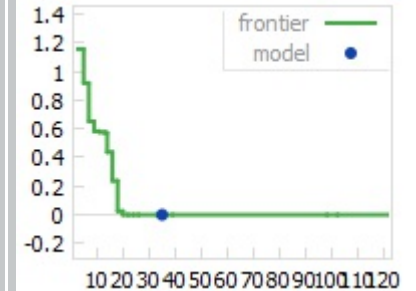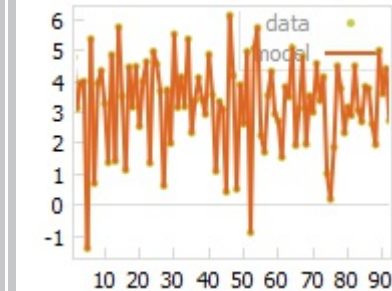
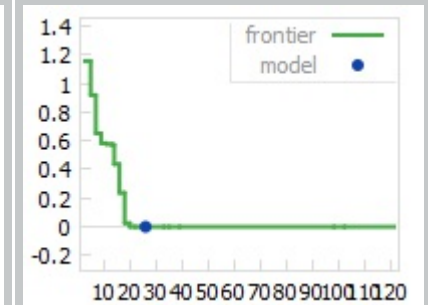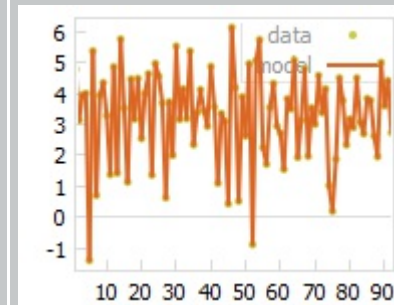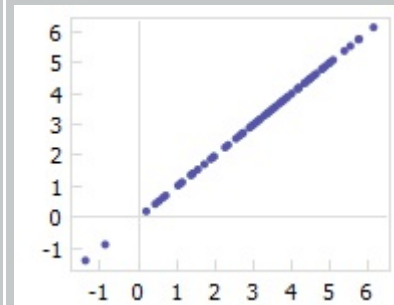| Model	Observed vs. Predicted	Output vs. Row	Error/Complexity Pareto
Model: $y = a + b*log(\textit{x2}) + c*sqrt(d + \textit{x3}) + e*cos(f*\textit{x3}) + cos(g*\textit{x1})$ **Text:** `y = 0.0299990088362794 + 1.00000014072787*log(x2) + 1.00000023814578*sqrt(9.41986955493183e-7 + x3) + 3.08623375788491e-7*cos(7.87026768361475*x3) + cos(2.00000016077551*x1)`			
Model: $y = a + b*sqrt(c + \textit{x3}) + d*cos(e*\textit{x3}) + log(\textit{x2}) + cos(f*\textit{x1})$ **Text:** `y = 0.0299993584211344 + 1.00000015253074*sqrt(8.97130433803032e-7 + x3) + 2.92079926803287e-7*cos(7.90661176077481*x3) + log(x2) + cos(2.00000016077551*x1)`			
Model: $y = a + b*log(\textit{x2}) + c*sqrt(d + \textit{x3})$			
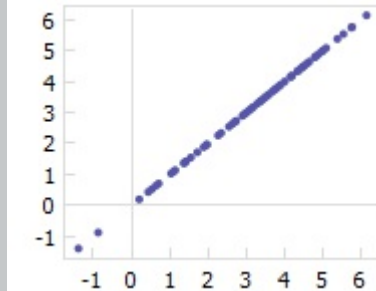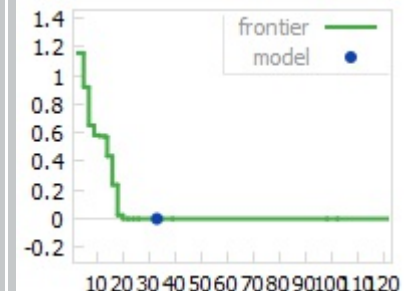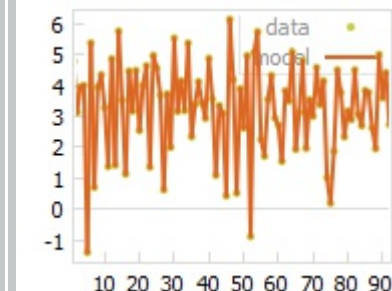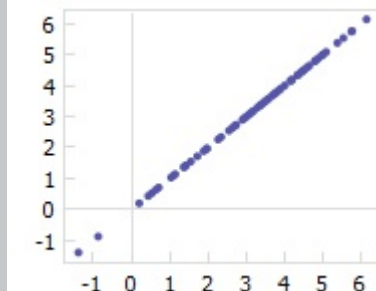
Text:
```
+ cos(e*x1)

y = 0.0299987145478944 +
1.00000009902719*log(x2)
+
1.00000032482338*sqrt(1.
0904676493528e-6 + x3) +
cos(2.00000016077551*x1)
```
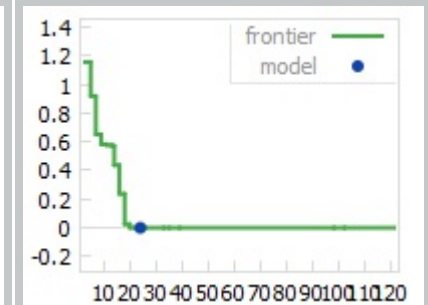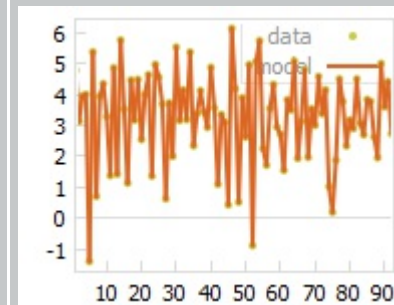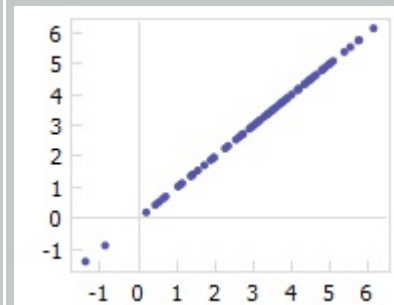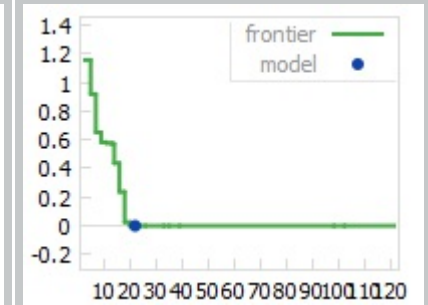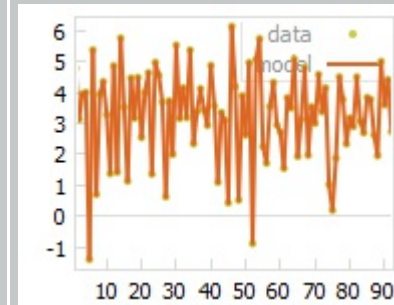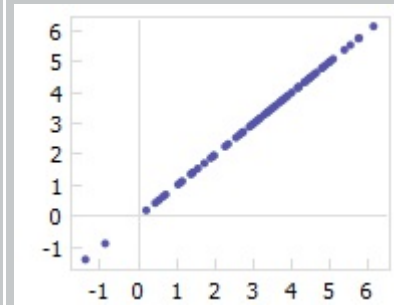

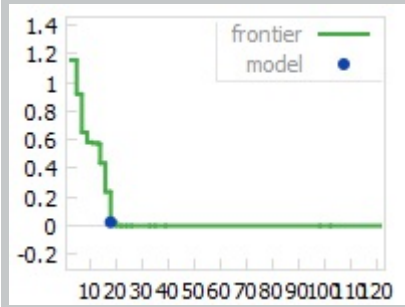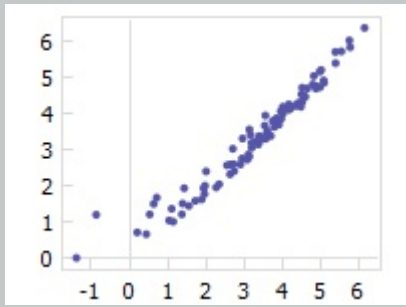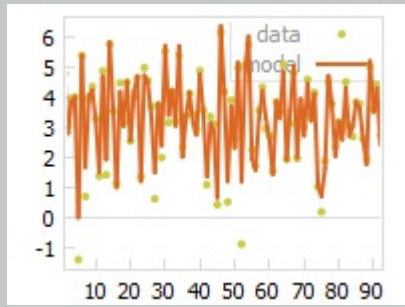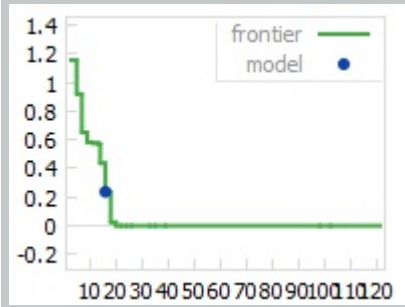**Model:** $y = a + b*sqrt(c + x3) + \log(x2) + \cos(d*x1)$
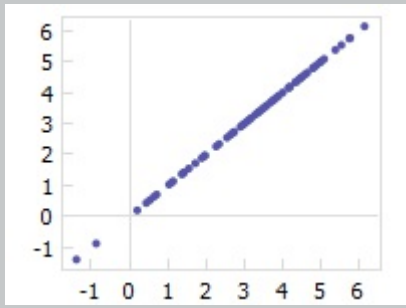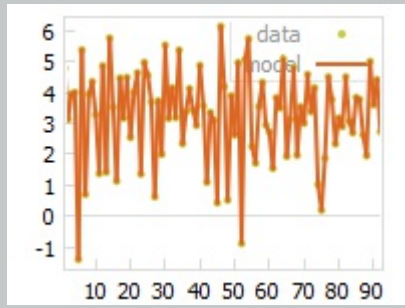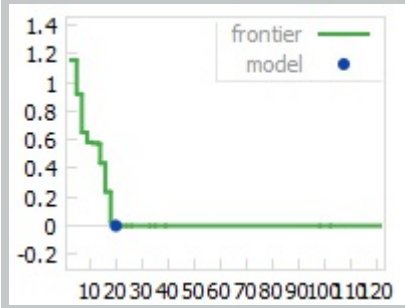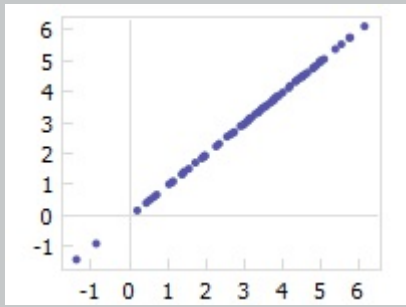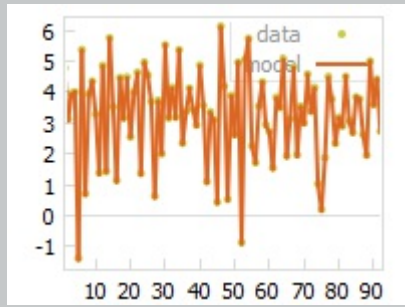
Text:
```
y = 0.0299988163243016 +
1.00000033717208*sqrt(1.
0904676493528e-6 + x3) +
log(x2) +
cos(2.00000016077551*x1)
```


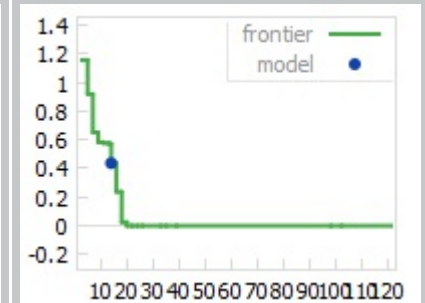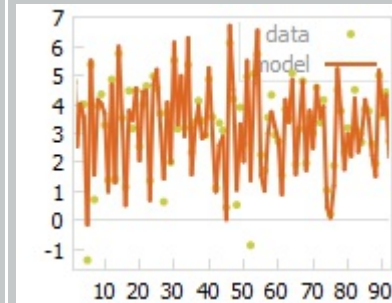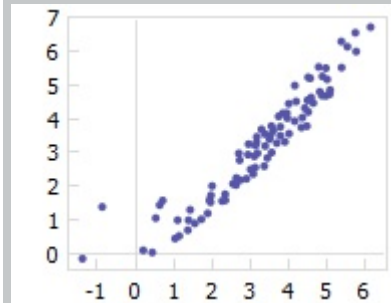**Model:** $y = a + \log(x2) + \cos(b*x1) + sqrt(c + x3)$

Text:
```
y = 0.029999714487325 +
log(x2) +
cos(2.00000016077551*x1)
+
sqrt(7.38071428100869e-7
+ x3)
```

Model	Observed vs. Predicted	Output vs. Row	Error/Complexity Pareto
Model: $y = a + \log(x2) + \mathrm{sqrt}(x3) + \cos(b*x1)$ **Text:** `y = 0.0299998958484762 + log(x2) + sqrt(x3) + cos(2.00000016077551*x1)`			
Model: $y = \log(x2) + \mathrm{sqrt}(x3) + \cos(a*x1)$ **Text:** `y = log(x2) + sqrt(x3) + cos(2.01273676438802*x1)`			
Model: $y = a*x3 + \mathrm{sqrt}(x2) + \cos(b*x1)$ **Text:** `y = 0.271247669100756*x3 + sqrt(x2) + cos(2.01447469010047*x1)`			
Model: $y = a*x2 + b*x3 + \cos(c*x1)$			

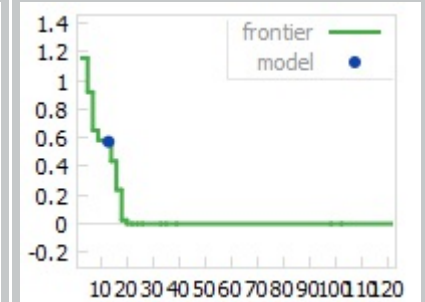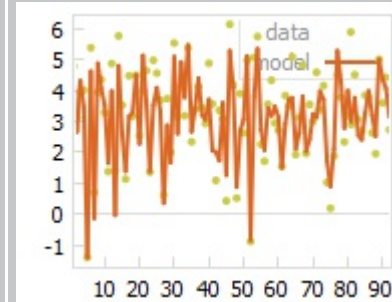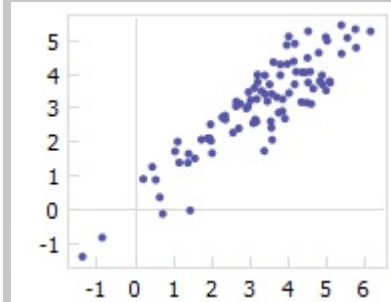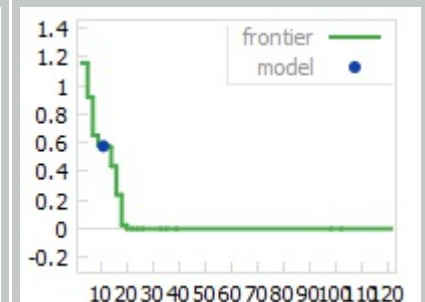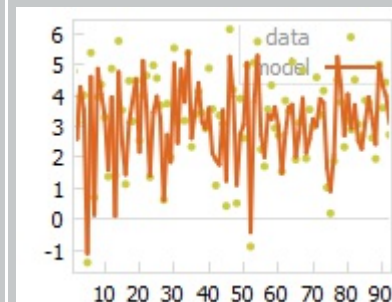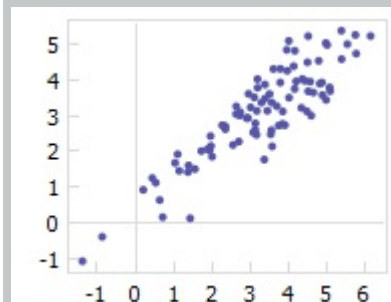|			
Text: $y = 0.358135348488394*x2 + 0.326690616138419*x3 + \cos(1.93801529340274*x1)$			
Model: $y = a + b*\mathit{x3} + c*\log(\mathit{x2})$ **Text:** $y = 0.180713867318762 + 0.295239860642804*x3 + 1.10494524636767*\log(x2)$			
Model: $y = a + b*\mathit{x3} + \log(\mathit{x2})$ **Text:** $y = 0.257499356163516 + 0.305264889233992*x3 + \log(x2)$			
Model: $y = a*\mathit{x3} + \log(\mathit{x2})$			

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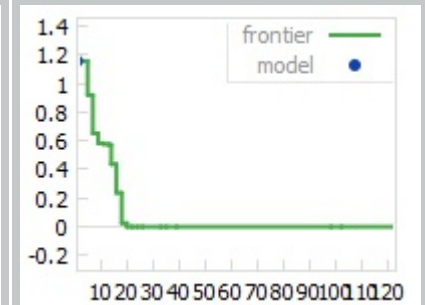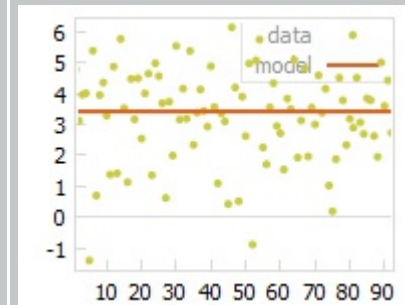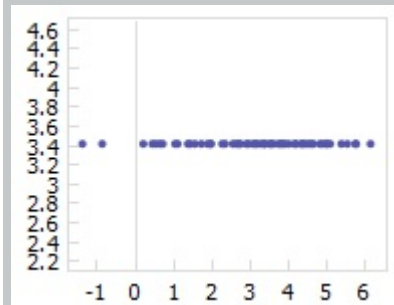|			
Text: y = 0.36447062269155*x3 + log(x2)			
Model: $y = a*x2 + b*x3$ **Text:** y = 0.33363661339487*x2 + 0.310011904414806*x3			
Model: $y = a + b*x3$ **Text:** y = 1.79696603945613 + 0.306094028370138*x3			
Model: $y = a$			
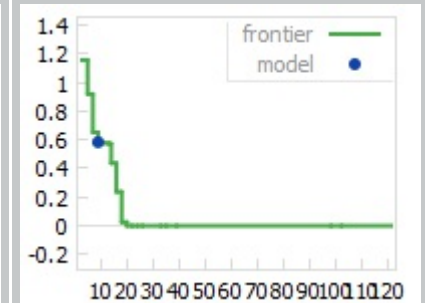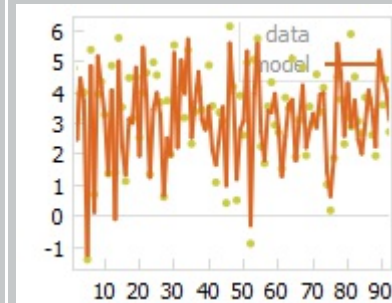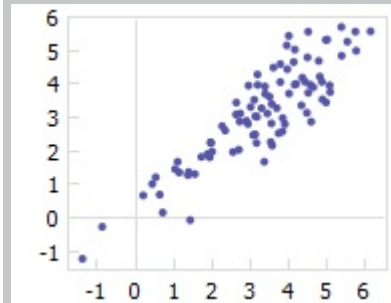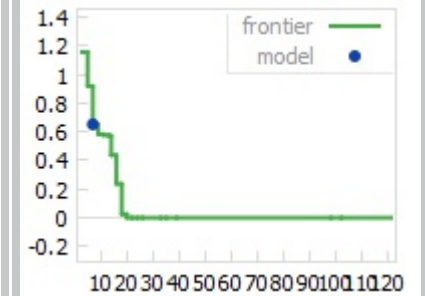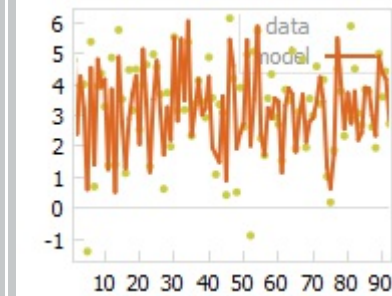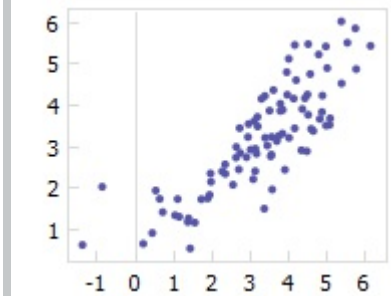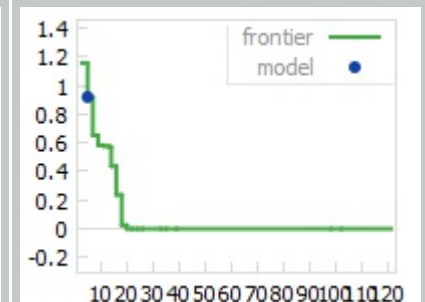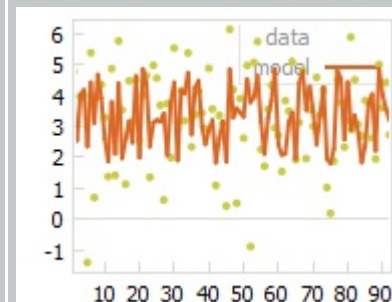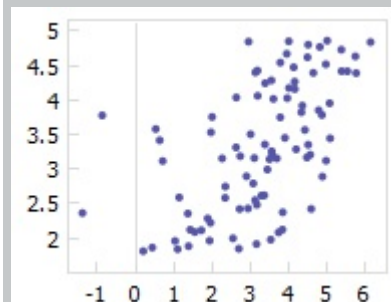
Text: `y = 3.41606125746103`

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