> Figure2 <- 'DEP ~ SCR

+ PW ~ SSE

+ SSE ~~ SCR

+ DEP ~~ PW'

>

> fit <- sem(Figure2,

+ sample.cov = data.cov,

+ sample.nobs = 133)

> parameterEstimates(fit)

lhs op rhs est se z pvalue ci.lower ci.upper

1 DEP ~ SCR 0.306 0.046 6.694 0.000 0.217 0.396

2 PW ~ SSE 0.617 0.055 11.122 0.000 0.508 0.726

3 SCR ~~ SSE -0.557 0.079 -7.019 0.000 -0.712 -0.401

4 DEP ~~ PW -0.072 0.023 -3.160 0.002 -0.117 -0.028

5 DEP ~~ DEP 0.212 0.026 8.155 0.000 0.161 0.263

6 PW ~~ PW 0.305 0.037 8.155 0.000 0.231 0.378

7 SCR ~~ SCR 0.734 0.090 8.155 0.000 0.558 0.911

8 SSE ~~ SSE 0.718 0.088 8.155 0.000 0.545 0.890

> Figure3 <- 'DEP ~ SCR

+ PW ~ SSE

+ SSE ~~ SCR

+ DEP ~~ PW

+ SRP ~ a\*SCR

+ SRP ~ c\*SSE

+ PW ~ d\*SRP

+ DEP ~ b\*SRP

+ Dep Indirect := a\*b

+ PW Indirect := c\*d'

>

> fit <- sem(Figure3,

+ sample.cov = data.cov,

+ sample.nobs = 133)

> parameterEstimates(fit)

lhs op rhs label est se z pvalue ci.lower ci.upper

1 DEP ~ SCR 0.203 0.048 4.239 0.000 0.109 0.297

2 PW ~ SSE 0.577 0.067 8.638 0.000 0.446 0.708

3 SCR ~~ SSE -0.557 0.079 -7.019 0.000 -0.712 -0.401

4 DEP ~~ PW -0.072 0.021 -3.332 0.001 -0.114 -0.029

5 SRP ~ SCR a -0.052 0.077 -0.677 0.498 -0.204 0.099

6 SRP ~ SSE c 0.360 0.078 4.602 0.000 0.207 0.514

7 PW ~ SRP d 0.127 0.096 1.314 0.189 -0.062 0.316

8 DEP ~ SRP b -0.325 0.070 -4.628 0.000 -0.463 -0.187

9 DEP ~~ DEP 0.185 0.023 8.155 0.000 0.141 0.230

10 PW ~~ PW 0.304 0.037 8.155 0.000 0.231 0.377

11 SRP ~~ SRP 0.241 0.030 8.155 0.000 0.183 0.299

12 SCR ~~ SCR 0.734 0.090 8.155 0.000 0.558 0.911

13 SSE ~~ SSE 0.718 0.088 8.155 0.000 0.545 0.890

14 DepIndirect := a\*b DepIndirect 0.017 0.025 0.670 0.503 -0.033 0.067

15 PWIndirect := c\*d PWIndirect 0.046 0.036 1.263 0.206 -0.025 0.116

> Figure4 <- 'DEP ~ SCR

+ PW ~ SSE

+ SSE ~~ SCR

+ DEP ~~ PW

+ SRP ~ a\*SCR

+ SRP ~ c\*SSE

+ PW ~ d\*SRP

+ DEP ~ b\*SRP

+ SSE ~~ DEP

+ Dep Indirect := a\*b

+ PW Indirect := c\*d'

>

> fit <- sem(Figure4,

+ sample.cov = data.cov,

+ sample.nobs = 133)

>

> parameterEstimates(fit)

lhs op rhs label est se z pvalue ci.lower ci.upper

1 DEP ~ SCR 0.262 0.049 5.344 0.000 0.166 0.358

2 PW ~ SSE 0.657 0.068 9.628 0.000 0.523 0.790

3 SCR ~~ SSE -0.557 0.079 -7.019 0.000 -0.712 -0.401

4 DEP ~~ PW -0.069 0.019 -3.530 0.000 -0.107 -0.031

5 SRP ~ SCR a -0.052 0.077 -0.677 0.498 -0.204 0.099

6 SRP ~ SSE c 0.360 0.078 4.602 0.000 0.207 0.514

7 PW ~ SRP d 0.063 0.097 0.648 0.517 -0.127 0.252

8 DEP ~ SRP b -0.174 0.069 -2.531 0.011 -0.309 -0.039

9 DEP ~~ SSE -0.111 0.024 -4.696 0.000 -0.157 -0.064

10 DEP ~~ DEP 0.193 0.024 8.018 0.000 0.146 0.240

11 PW ~~ PW 0.301 0.037 8.155 0.000 0.228 0.373

12 SRP ~~ SRP 0.241 0.030 8.155 0.000 0.183 0.299

13 SCR ~~ SCR 0.734 0.090 8.155 0.000 0.558 0.911

14 SSE ~~ SSE 0.718 0.088 8.155 0.000 0.545 0.890

15 DepIndirect := a\*b DepIndirect 0.009 0.014 0.654 0.513 -0.018 0.036

16 PWIndirect := c\*d PWIndirect 0.023 0.035 0.641 0.521 -0.046 0.092

> Figure6 <- 'DEP ~ SCR

+ PW ~ SCR

+ PW ~~ DEP

+ SCR ~~ SCR'

>

> fit <- sem(Figure5,

+ sample.cov = data.cov,

+ sample.nobs = 133)

>

> parameterEstimates(fit)

lhs op rhs est se z pvalue ci.lower ci.upper

1 DEP ~ SCR 0.326 0.047 6.992 0 0.234 0.417

2 PW ~ SCR -0.549 0.065 -8.426 0 -0.676 -0.421

3 DEP ~~ PW -0.149 0.029 -5.172 0 -0.205 -0.092

4 DEP ~~ DEP 0.212 0.026 8.155 0 0.161 0.263

5 PW ~~ PW 0.414 0.051 8.155 0 0.315 0.514

6 SCR ~~ SCR 0.734 0.000 NA NA 0.734 0.734

> Figure7 <- 'DEP ~ SCR

+ PW ~ SCR

+ PW ~~ DEP

+ SRP ~ A\*SCR

+ SSE ~ C\*SCR

+ PW ~ E\*SSE

+ DEP ~ B\*SSE

+ DEP ~ D\*SRP

+ SRP ~~ SSE

+ SCR ~~ SCR

+ SRP := A\*B

+ SSED := C\*D

+ SSEPW := C\*E

+ Total := A\*B + C\*D'

>

> fit <- sem(Figure7,

+ sample.cov = data.cov,

+ sample.nobs = 133)

>

> parameterEstimates(fit)

lhs op rhs label est se z pvalue ci.lower ci.upper

1 DEP ~ SCR -0.004 0.061 -0.070 0.944 -0.125 0.116

2 PW ~ SCR -0.077 0.086 -0.892 0.372 -0.246 0.092

3 DEP ~~ PW -0.068 0.019 -3.526 0.000 -0.106 -0.030

4 SRP ~ SCR A -0.326 0.053 -6.089 0.000 -0.430 -0.221

5 SSE ~ SCR C -0.758 0.055 -13.784 0.000 -0.866 -0.650

6 PW ~ SSE E 0.622 0.087 7.123 0.000 0.451 0.793

7 DEP ~ SSE B -0.367 0.066 -5.523 0.000 -0.497 -0.237

8 DEP ~ SRP D -0.160 0.065 -2.453 0.014 -0.287 -0.032

9 SRP ~~ SSE 0.106 0.027 4.008 0.000 0.054 0.159

10 SCR ~~ SCR 0.734 0.090 8.155 0.000 0.558 0.911

11 DEP ~~ DEP 0.152 0.019 8.155 0.000 0.115 0.188

12 PW ~~ PW 0.300 0.037 8.155 0.000 0.228 0.372

13 SRP ~~ SRP 0.279 0.034 8.155 0.000 0.212 0.347

14 SSE ~~ SSE 0.295 0.036 8.155 0.000 0.224 0.366

15 SRP := A\*B SRP 0.119 0.029 4.091 0.000 0.062 0.177

16 SSED := C\*D SSED 0.121 0.050 2.415 0.016 0.023 0.219

17 SSEPW := C\*E SSEPW -0.472 0.075 -6.328 0.000 -0.618 -0.326

18 Total := A\*B+C\*D Total 0.241 0.052 4.595 0.000 0.138 0.343