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```

dL_dx1 = 2*p1*x1 - 12*x1 + 3*x1^2 - (p2*x1)/(x1^2 + x2^2 + x3^2)^(1/2)
+ 11;
dL_dx2 = 2*p1*x2 - (p2*x2)/(x1^2 + x2^2 + x3^2)^(1/2);
dL_dx3 = p3 - 2*p1*x3 - (p2*x3)/(x1^2 + x2^2 + x3^2)^(1/2) + 1;
dL_dp1 = s1^2 + x1^2 + x2^2 - x3^2;
dL_dp2 = s2^2 - (x1^2 + x2^2 + x3^2)^(1/2) + 2;
dL_dp3 = x3 + s3^2 - 5;
dL_ds1 = 2*p1*s1;
dL_ds2 = 2*p2*s2;
dL_ds3 = 2*p3*s3;
-----
x1* = 1.9997
x2* = -1.4709e-28
x3* = 1.9997
p1* = 0.25004
p2* = -8.6701e-25
p3* = -1.6783e-32
s1* = -8.7868e-28
s2* = 0.90995
s3* = 1.7321

```

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