```
function A = ALM(f, x, rp, gs, lambda)
%ALM Returns the psuedo-objective function value augmented Lagrange
matrix
%method

if nargin < 4
    gs = [];
end

P = 0;
for i = 1:numel(gs)
   gx = gs{i}(x);
   psi = max(gx, -lambda(i) / (2 * rp));
   P = P + lambda(i) * psi + rp * psi^2;
end

A = f(x) + P;
end</pre>
```

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