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CS4150/PS10 - 3

/* Objective function */

min: a;

/* Variable bounds */

a >= 3 - m - b;

a >= m - 3 + b;

a >= 5 - 2m - b;

 $a \ge 2m - 5 + b$;

a >= 7 - 3m - b;

a >= 3m - 7 + b;

a >= 11 - 5m - b;

a >= 5m - 11 + b;

a >= 14 - 7m - b;

a >= 7m - 14 + b;

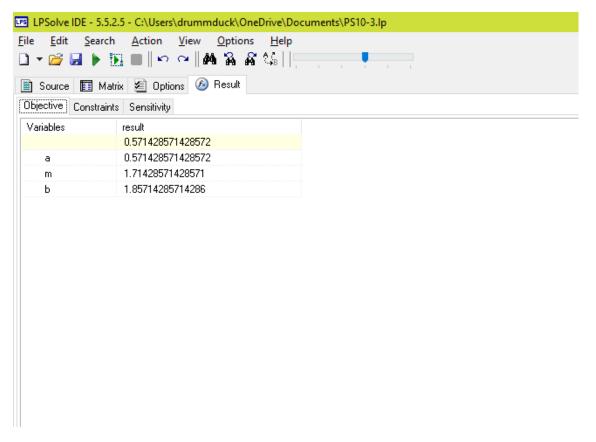
a >= 15 - 8m - b;

a >= 8m - 15 + b;

a >= 19 - 10m - b;

a >= 10m - 19 + b;

```
LPSolve IDE - 5.5.2.5 - C:\Users\drummduck\OneDrive\Documents\PS10-3.lp
<u>File Edit Search Action View Options Help</u>
🖺 Source 🛐 Matrix 💆 Options 🙆 Result
 1 /* Objective function */
 2 min: a;
 3 /* Variable bounds */
  4 a >= 3 - m - b;
  s a >= m - 3 + b;
  7 a >= 5 - 2m - b;
  8 a >= 2m - 5 + b;
 10 a >= 7 - 3m - b;
 11 a >= 3m - 7 + b;
 12
 13 a >= 11 - 5m - b;
 14 a >= 5m - 11 + b;
 15
 16 a >= 14 - 7m - b;
 17 a >= 7m - 14 + b;
 19 a >= 15 - 8m - b;
 20 a >= 8m - 15 + b;
 22 a >= 19 - 10m - b;
 23 a >= 10m - 19 + b;
                                                          I
```



The optimum value for m is 1.71428571428571 and the optimum value for b is 1.85714285714286.

The maximum absolute error calculated by the solver is 0.571428571428572.