1 A

```
\begin{aligned} -a_-x + f_- & 2 + 0.7071067811 f_- 1 = 0 \\ -a_-y + 0.7071067813 f_- 1 = 0 \end{aligned}
```

2 B

 $-f_{-}\mathcal{Z} + f_{-}\mathcal{A} + 0.2747312660 f_{-}\mathcal{A} = 0 \\ 0.9615210510 f_{-}\mathcal{A} = 20000$

3 C

 $-f_4-\cos{(0.8981464333)}\,f_5+0.2873605196\,f_7+f_8=0$ $\sin{(0.8981464333)}\,f_5+0.9578224949\,f_7=20000$

4 D

 $-f_-8 - 0.4472127966 f_-9 + 0.4472127966 f_-13 + f_-14 = 0$ $0.8944275905 f_-9 + 0.8944275905 f_-13 + f_-11 = 20000$

5 E

6 F

7 G

 $\begin{aligned} -f_-&21 - 0.7071067813f_-&2\theta = 0\\ c + 0.7071067811f_-&2\theta = 0 \end{aligned}$

8 H

```
-0.707f_{-1} - f_{-3}\cos{(1.292486124)} + f_{-5}\cos{(0.8982511528)} + 0.9363f_{-6} = 0 \\ -0.707f_{-1} - f_{-3}\sin{(1.292486124)} - f_{-5}\sin{(0.8982511528)} + 0.351f_{-6} = 0
```

9 J

```
-0.9363\,f_-6 - 0.2873605196\,f_-7 + 0.4472127966\,f_-9 + 0.928\,f_-10 = 0 \\ -0.351\,f_-6 - 0.9578224949\,f_-7 - 0.8944275905\,f_-9 + 0.371\,f_-10 = 0
```

10 L

```
\begin{array}{l} -0.928\,f_-10\,+\,0.928\,f_-12\,=\,0 \\ -0.371\,f_-10\,-\,0.371\,f_-12\,-\,f_-11\,=\,0 \end{array}
```

11 K

```
\begin{array}{l} 0.9363\,f_{-}16 + 0.2873605196\,f_{-}15 - 0.4472127966\,f_{-}13 - 0.928\,f_{-}12 = 0 \\ -0.351\,f_{-}16 - 0.9578224949\,f_{-}15 - 0.8944275905\,f_{-}13 + 0.371\,f_{-}12 = 0 \end{array}
```

12 I

```
\begin{array}{l} 0.707\,f_{-}20+f_{-}19\,\cos{(1.292486124)}\,-f_{-}17\,\cos{(0.8982511528)}-0.9363\,f_{-}16=0\\ -0.707\,f_{-}20-f_{-}19\,\sin{(1.292486124)}\,-f_{-}17\,\sin{(0.8982511528)}+0.351\,f_{-}16=0 \end{array}
```