

1. $\left(\frac{5}{\sqrt{2}}, -3\right), \left(-\frac{5}{\sqrt{2}}, -3\right), \left(\frac{3}{\sqrt{2}}, 1\right), \left(-\frac{3}{\sqrt{2}}, 1\right)$

2. $(-1, 3), \left(\frac{9}{5}, -\frac{13}{5}\right)$

3. $(-2, -3), \left(\frac{4}{3}, \frac{11}{3}\right)$

4. $(2, 1), (-2, -1)$

5. No solution

6. $(-1, 0), (2, -\sqrt{3}), (2, \sqrt{3})$

7. $(0, -1), \left(\sqrt{\frac{15}{8}}, \frac{1}{4}\right), \left(-\sqrt{\frac{15}{8}}, \frac{1}{4}\right)$