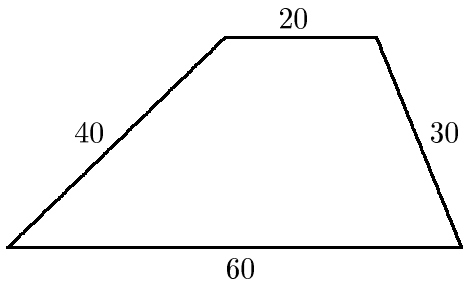
18.8. $6\sqrt{2}-4$.

19.1. $\frac{31}{8}$.

19.2. $12+24\sqrt{2}$ cm.

19.3. $s \leq 20$.

19.4. $\frac{3}{2}\sqrt{55}$ arów. Plan działki w skali 1:1000 przedstawia rysunek 13.



Rys. 13

19.5. Wartość największa 6 dla $m=0$.

19.7.
$$\begin{cases} x_1 = \frac{5\pi}{12} \\ y_1 = \frac{\pi}{12}, \end{cases} \quad \begin{cases} x_2 = \frac{\pi}{12} \\ y_2 = \frac{5\pi}{12}, \end{cases} \quad \begin{cases} x_3 = -\frac{7\pi}{12} \\ y_3 = -\frac{11\pi}{12}, \end{cases} \quad \begin{cases} x_4 = -\frac{11\pi}{12} \\ y_4 = -\frac{7\pi}{12}. \end{cases}$$

19.8. $1,\ 1,\ \frac{\sqrt{3}}{2},\ \frac{2\sqrt{7}}{7},\ \frac{\sqrt{42}}{7},\ \frac{\sqrt{42}}{7}$.

20.1. $-1,\ 1,\ 2$.

20.2. $\frac{8}{5}(2-\sqrt{3})$.

20.3. $\frac{50}{81} \approx 0,617$.