

3.7 Optimization WKST

① $x=24, y=8$

② $x=50, y=25$

③ $x=25, y=25$

④ $x=8 \text{ meters}, y=8 \text{ meters}$

⑤ $d = \frac{\sqrt{5}}{2}$

⑥ $(\pm\sqrt{\frac{3}{2}}, \frac{5}{2})$

⑦ $(1, \sqrt{5})$

⑧ $\frac{3}{\sqrt{2}}'' \times \frac{6}{\sqrt{2}}''$

⑨ $x=30 \text{ ft}$

⑩ $A=400 \text{ ft}^2$

⑪ $A=100 \text{ yds} \times 150 \text{ yds}$

⑭ $x=18, y=9$

⑫ $x=58.333 \text{ ft}, y=43.75 \text{ yds}$

⑮ $\$51.50$

⑬ $x=\sqrt{30}^{\text{ft}}$, $y=\frac{30}{\sqrt{30}}^{\text{in}}$

⑯ $\$1050$