

Max/Min Problems - Answers

FALL 96

Pat Rossi

Name _____

1. 25 ft.
2. $l = w = 25$ ft.
3. $x = 1$
4. 6 and 12.
5. 55 and 55
6. $\sqrt{192}$ and $\sqrt{192}$
7. $x = 2, y = 4$.
8. 6 and 6.
9. 250 rods by 500 rods
10. $x = 25$ and $y = \frac{100}{3}$
11. 108 in^2 .
12. $\text{vol} = 128 \text{ in}^3$ when $x = 2$ in.
13. $x = 3; y = \frac{3}{2}$
14. $\frac{5-\sqrt{7}}{6} \times \frac{1+\sqrt{7}}{3} \times \frac{4+\sqrt{7}}{3}$
15. $\sqrt{2}a$ by $\frac{a}{\sqrt{2}}$
16. $50m \times \frac{100}{\pi}m$
17. $5 \times 5 \times \frac{10}{3}$