

Practice 17.6

Name _____

Solve the equation symbolically.

1) $\sqrt{y} = 4$

2) $\sqrt[3]{x-5} = 5$

Evaluate the root function at the given x-value. Round to the nearest hundredth when appropriate.

3) $f(x) = \sqrt{4x+16}$, $x = 0$

4) $f(x) = \sqrt{(x-1)^2}$, $x = 5$

Solve the equation.

5) $2x^2 = 8$

6) $(16 - 8x)^2 = 1600$

7) $(16 - 40x)^3 = -1000$

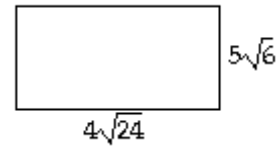
Solve the formula for the indicated variable.

8) $r = \sqrt{\frac{S}{4\pi}}$ for S

9) $L = \sqrt{\frac{2W}{k}}$ for k

Find the exact perimeter. Then approximate your answer to the nearest tenth.

10)



Answer Key

Testname: WKS_17.6

1) 16

2) 130

3) 4

4) 4

5) ± 2

6) -3, 7

7) $\frac{13}{20}$

8) $S = 4\pi r^2$

9) $k = \frac{2W}{L^2}$

10) $26\sqrt{6}, 63.7$