



6. Evaluate the expression if  $x = 5$ ,  $y = 3$   
 $\sqrt{x^3 + y^2 + 11}$ .

Leave your answer in square root form.

Is the result going to be rational or irrational?

7. Find the integer value of  $x$ ,  $1 \leq x \leq 5$ ,  
that makes  $\sqrt{x^3 + 54}$  rational.

8. Write each decimal as a fraction in lowest terms:

a.  $0.\bar{4}$  (one digit repeating)

b.  $0.\overline{45}$  (two digits repeating)

One more for extra practice.....

c.  $0.\overline{72}$  (two digits repeating)



6. Evaluate the expression if  $x = 3$ ,  $y = 2$   
 $\sqrt{x^3 + y^2 + 5}$ .

Leave your answer in square root form.

Is the result going to be rational or irrational?

7. Find the TWO integers whose value of  $x$ ,  
 $1 \leq x \leq 5$ , that make  $\sqrt{x^3 + 17}$  rational.

8. Write each decimal as a fraction in lowest terms:

a.  $0.\bar{7}$  (one digit repeating)

b.  $0.\overline{54}$  (two digits repeating)

One more.....

c.  $0.\overline{63}$  (two digits repeating)