Warm - Up

$$\frac{2}{3}x - 9 = -11$$

$$\frac{3}{2} = \frac{3}{2} = \frac{3}{2}$$

$$\frac{5}{7} \cdot \frac{1}{5} (\frac{2}{3} \times -3) = \frac{4}{5} \cdot \frac{5}{1}$$

$$\frac{2}{3} \times 3 = \frac{4}{5}$$

Solving square root and cube root equations

$$\sqrt{64} = 8$$

$$\sqrt{36} = 6$$

$$\sqrt{x^2} = \sqrt{25}$$

$$\chi = 5$$

$$\sqrt{x^2} = \sqrt{4}$$

$$\chi = 2$$

$$\int x^2 = \sqrt{-81}$$

$$X = \text{none}$$

$$4x^{2} + 6 = 54$$
 $-6 - 6$ 
 $4x^{2} - 48$ 
 $4x^{2} - 48$ 
 $4x^{2} - 12$ 

$$2x^{2} - 4 = 28$$
 $44 + 4$ 
 $3x^{2} = 32$ 
 $5x^{2} = \sqrt{10}$ 
 $5x^{2} = 4$ 

**₹27 = 3** 

4: 4.4.4 = 64

5:5.5.5.125

1:  $|\cdot|\cdot| = 1$ 

9: 9.9.9-729 6:6.6.6-216

2: 2.2.2.8

7: 7.7.7 = 343 10: 10.10.10=

1000

3: 3·3·3-27

8: 8.8.8 = 512

$$\sqrt[3]{x^3} = \sqrt[3]{8}$$

$$\chi = 2$$

$$3x^3 = 125$$
  
 $x = 5$ 

## You try!

$$x^{2} - 9 = 72$$
 $+9 + 9$ 
 $\sqrt{x^{2}} = \sqrt{81}$ 
 $x = 9$ 

$$\sqrt{x^3} = \sqrt[4]{64}$$

$$\chi = 4$$

$$-2x^{2} = -\frac{128}{-2}$$

$$\sqrt{x^{2}} - \sqrt{64}$$

$$x = 8$$

$$2x^{3} = 1,458$$

$$2\sqrt{3} = 1,4$$