Section 9.1: Finding Square Roots In Class Notes		Name:
A of a numb	per p, is a number who	ose square is equal to p.
Every positive number has a	and	square root.
Ais	a number with intege	ers as its square roots.
Ex:) Find the 2 square roots of 49.		Notes:
		Zero has only one square root, which is 0.
OYO:) Find the 2 square roots of 36, 100, and 121.		Notes:
The $$ is called the	The nu	umber under it is called
the		
• $\sqrt{p}$ represents the <i>positive</i> square root of <i>p</i> .		
• $-\sqrt{p}$ represents the <i>negative</i> square root of <i>p</i> .		
• $\pm \sqrt{p}$ represents <i>both</i> square roots of <i>p</i> .		
Ex:) Find the square root(s).		Notes:

a.  $\sqrt{25}$  b.  $-\sqrt{49}$  c.  $\pm\sqrt{16}$ 

OYO:) Find the square root(s).

Notes:

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a. 
$$\sqrt{4}$$
 b.  $-\sqrt{81}$  c.  $\pm\sqrt{64}$   
Ex:) Find the square root(s). Notes:  
a.  $\sqrt{\frac{9}{16}}$  b.  $\pm\sqrt{2.25}$ 



b. 
$$\sqrt{12.25}$$

Ex:) Evaluate the expression.

Notes:

Notes:

a. 
$$5\sqrt{36} + 7$$
 b.  $\frac{1}{4} + \sqrt{\frac{18}{2}}$  c.  $(\sqrt{81})^2 - 5$ 

OYO:) Evaluate the expression.

Notes:

a. 
$$12 - 3\sqrt{25}$$
 b.  $\sqrt{\frac{28}{7}} + 2.4$  c.  $15 - (\sqrt{4})^2$ 

Ex:) Solve each equation.

a.  $x^2 = 81$ 

b.  $3a^2 = 48$ 

OYO:) Solve each equation.

a.  $k^2 = 169$ 

b.  $190 = 4b^2 - 6$ 

Notes:



Notes:

Notes:



OYO:) Your distance d (in miles) from the horizon can be approximated by  $d = 1.22\sqrt{h}$ , where h is your eye level (in feet above ground level). What is your eye level when you are 9.76 miles from the horizon? Notes: