Cholkar MCHS	MATH II/_/ I	Name
<b>QUIZ REVIEW</b>	How do we review for our quiz?	
HW #		2 1/3 × 4/3
Do Now	Objective: I can simplify radicals.	•
	#7, # 9, # 11 (Extra Handout)	$3\sqrt{2x} = (2x)^3$

Objective 1: I can convert write radicals as rational exponents and vice versa.

2 1/3. X4/3

Write each expression using rational exponents.

- 3. Va2 Q4

2.  $\sqrt[3]{2x}$   $(2x)^{1/3}$ 

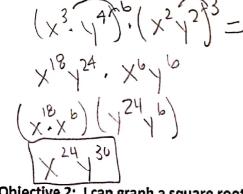
- 4.  $5\sqrt[3]{x^3}$   $5.4 \times \sqrt[3]{x^3}$

Write each expression using radical notation.

6.  $x^{\frac{2}{3}}$ 

- 8.  $3x^{\frac{1}{2}}$   $3 \cdot 2\sqrt{x}$   $10.(5x)^{\frac{4}{7}}$

- X°-X<sup>3</sup>-Y' = X<sup>3</sup>-Y



Z = 1

Objective 2: I can graph a square root function using transformations of the parent function  $y = \sqrt{x}$ 

Objective 3: I can state the domain and range of a square root function.

The function  $f(x) = \sqrt{64x}$  approximates an objects downward velocity in feet per second as the object hits the ground after bouncing x feet in height.

Find the velocity of a ball that bounces

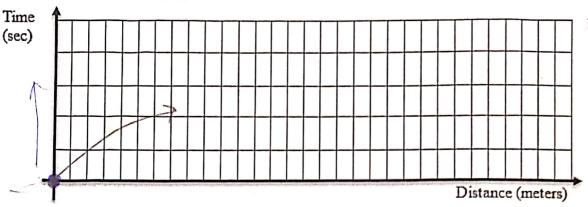
3 - 108 x 1/5 20 1081/3×4/3 45/3 = 43

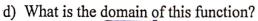
b) Find the height of a ball whose velocity is 12 ft/sec \$ 12= √64×

144 = 94



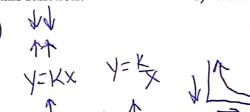






e) What is the range of this function?











Objective 5: I can identify a direct and inverse variation function. (Graph and Equation)

Classify the following as a Direct Variation or Inverse Variation function.

a. 
$$V = \frac{k}{t^2}$$

b. 
$$R = klwh$$

b. 
$$R = klwh$$
 c.  $G = \frac{kp_1p_2}{d}$ 

d. 
$$G = kt^2$$

Is the relationship between the values in each situation a direct variation or an inverse variation function?

a. The stretch of a bungee cord (in feet) is a function of the jumper's weight (in pounds).





b. A group of classmates go on a 200 mile road trip to the North Carolina coast. The time it will take for the classmates to reach the coast is a function of the speed they are driving.

