

ERL MCR UNIT 3

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UNIT 3 MCR 3UI Exam Review

**Be able to graph our new functions,

$y = \sqrt{x}$ and $y = \frac{1}{x}$, and transformations of them!

1. Complete the chart

EQUATION	TYPE OF GRAPH	PARENT GRAPH	FUNCTION YES/NO	DOMAIN	RANGE
$2x - 3y = 5$					
$y = \frac{3}{x+1}$					
$y = x^2 - 4$					
$x = 5$					
$y = \sqrt{x-2}$					
$x^2 + y^2 = 9$					
$y = 2^x$					
$y = 3\sin x$					
$y = x + 3$					

2. Determine the equation of the inverse.

a) $f(x) = (x + 1)^2 - 2$

b) $f(x) = 2x^2 - 3$

3. Graph $y = -3\sqrt{x - 2} + 8$

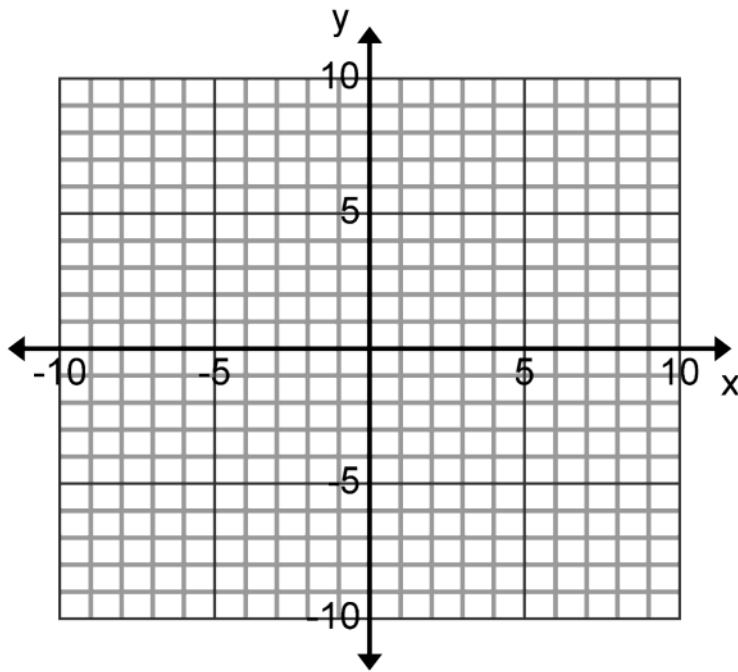
Domain: $\{x | x \in \mathbb{R}, x \geq 2\}$

Range: $\{y | y \in \mathbb{R}, y \leq 8\}$

First graph: $y =$

Second graph: $y =$

Final graph: $y = -3\sqrt{x - 2} + 8$



Also, Unit 4 today!