ATHAGK!

A Unit 3
Review
Game

## Question l

## PIRECT OR MNVERSE? <br> $D=4 C$

## Question 2

REWRITE AS A RADICAL EXPRESSION

## $3 x^{\frac{8}{3}}$



## Qustion 3 <br> SOLVE

$\sqrt{6 x-5}=x$


## Question 4

REWRITE WHTH A RATHONAL EXPONENT


## Question 5

SOLYE:


## Question 6

The number of revolutions made by a tire traveling over a fixed distance varies inversely to the radius of the tire. A 12 -inch radius tire makes 100 revolutions to travel a certain distance. How many revolutions would a 16-inch radius tire require to travel the same distance?


Question 7

Y VARIES DIRECTLY WITH $X$.

AS $\times$ INCREASES, $Y \ldots$ ?


Question 8



## Qustion 9

## STATE THFE TRAMSFORMATHONTS:

## 1 <br> $y=$ <br> 十 <br> 1 $x-4$

## Question 10

## STATF THE PQMAMN \& RANQE:

## 1 <br> $y=$ <br> 十 <br> 1 $x-4$

## Question 11

REWRITEASA RADICAL EXPRESSION


## Question 12 <br> SOLVE <br> $5 \sqrt{x+7}-6=19, R \mid P$

## Question 13

Write the equation of a
RADICAL FUNCTION THAT HAS
BEEN TRANSLATED 2 UNITS TO
THE LEFT AND ONE UNIT DOWN


## Question 14

REWRITEASARADICAL EXPRESSION


## $(2 x)^{\overline{2}}$

## Question 15




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## Question 16

Write the equation of a
RATIONAL FUNCTION THAT HAS
BEEN TRANSLATED 3 UNITS TO RIGHT AND UP 4


## Question 17

## STATE THF TRANSFORMATHONS:

$$
y=3 \sqrt{x}+1
$$

## Question 18 SOLVE


$\sqrt{3 x-1}=\sqrt{2 x+4}$

## Question 19

## REWRITE WHTHA RATHONAL EXPONENT

$$
\sqrt{S^{7}}
$$



Question 20
PIRECT OR INVERSE?


## Question 21

## STATF THE PQMANM \& RANQE:

$y=-\sqrt{x-2}+1$

## Question 22 \$OHY틀

$$
x+3=\frac{-}{x}
$$

Question 23


$$
\begin{aligned}
& \text { WRITE TUE } \\
& E_{Q U A T} \\
& \text { FORT ON TUE } \\
& \text { GRAPH! }
\end{aligned}
$$

## Question 24

## STATE THE TTRAMSFORMATIOMS:


$x$

## Question 25

$Y$ Varies inversely with $x$. IF $y=30$ WHEN $x=15$, FIND $x$ WHEN $Y=-5$.



## Question 27

## DIRECT OR MNYERSE?



