

A Unit 3 Review Game



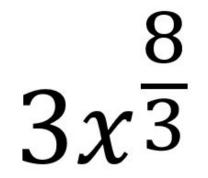
DIRECT OR INVERSE?

D = 4(



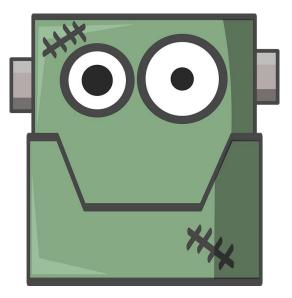


REWRITE AS A RADICAL EXPRESSION

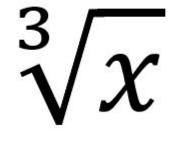








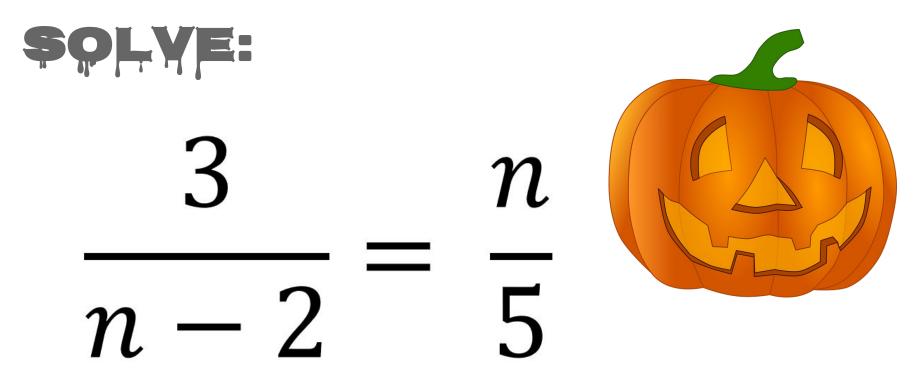
 $\sqrt{6x-5} = x$





REWRITE WITH A RATIONAL EXPONENT





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?

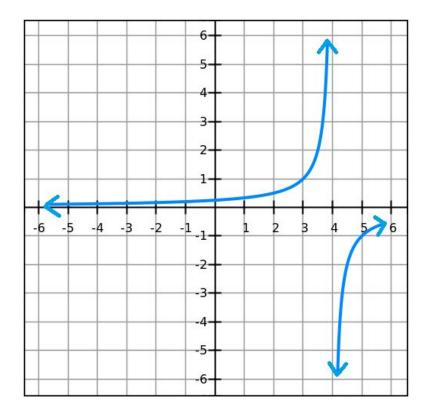




Y VARIES DIRECTLY WITH X.

AS X INCREASES, Y _____?

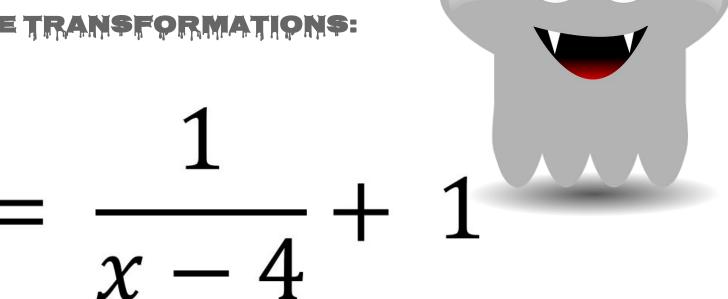






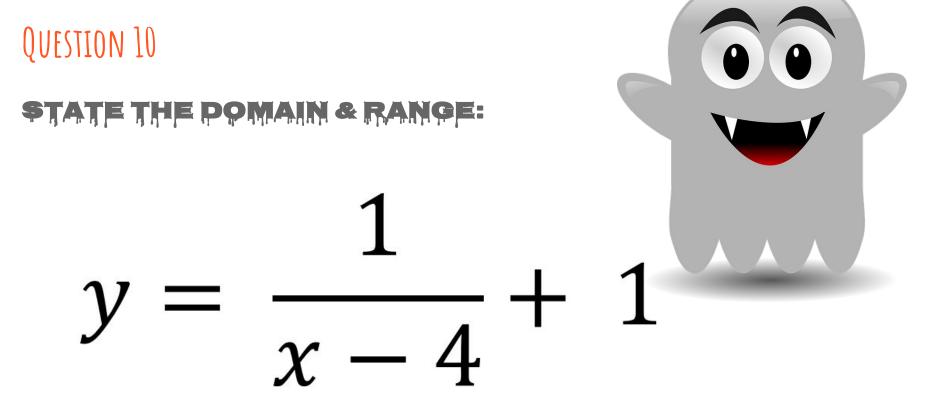
STATE THE TRANSFORMATIONS:





0

0





REWRITE AS A RADICAL EXPRESSION $\sqrt{5}$





$5\sqrt{x+7} - 6 = 19$ **RIP**

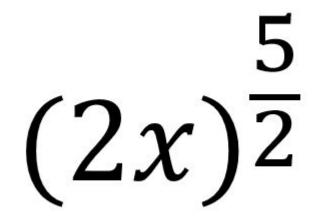
WRITE THE EQUATION OF A RADICAL FUNCTION THAT HAS BEEN TRANSLATED Z UNITS TO THE LEFT AND ONE UNIT DOWN

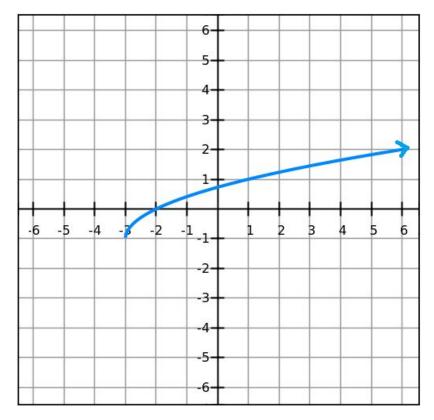




REWRITE AS A RADICAL EXPRESSION









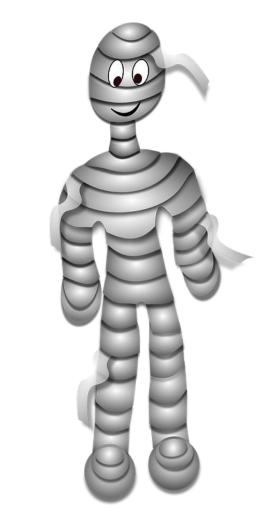
WRITE THE EQUATION FOR THE GRAPH!

WRITE THE EQUATION OF A RATIONAL FUNCTION THAT HAS BEEN TRANSLATED 3 UNITS TO RIGHT AND UP 4



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

STATE THE TRANSFORMATIONS:





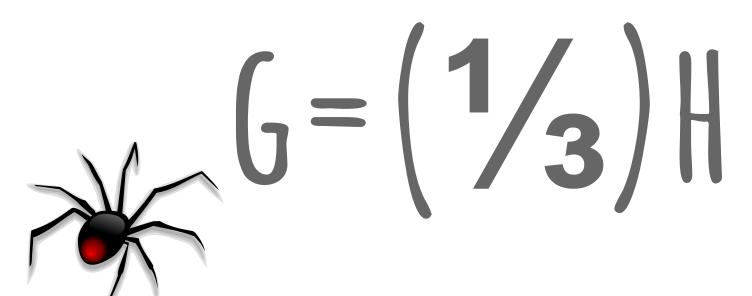




 $\sqrt{3x-1} = \sqrt{2x+4}$



REWRITE WITH A RATIONAL EXPONENT

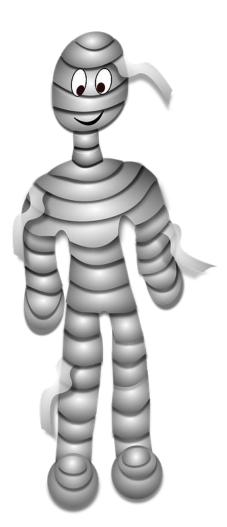


DIRECT OR INVERSE?



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

STATE THE POMAIN & RANGE:

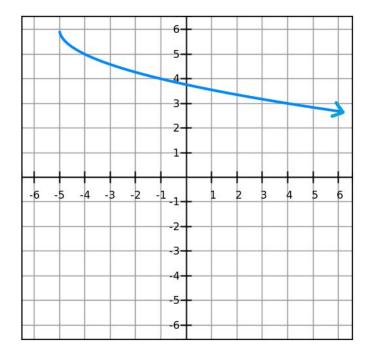


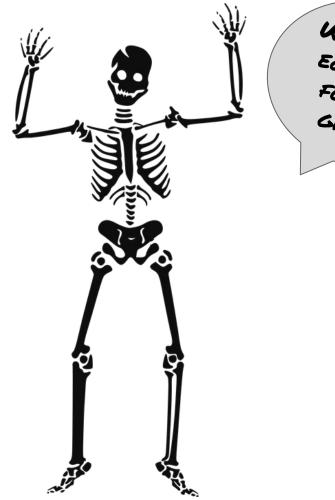




x + 3 = -



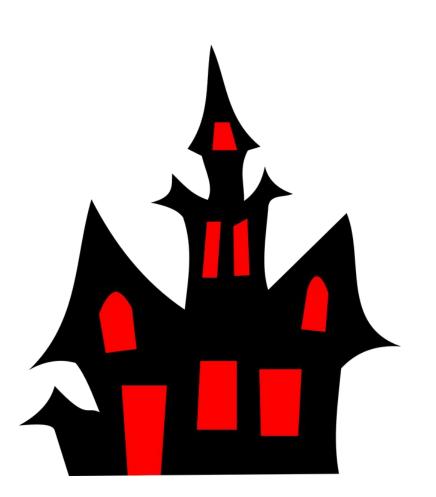


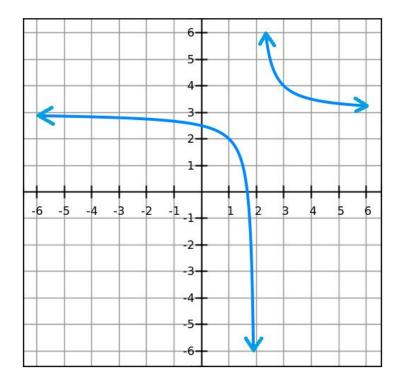


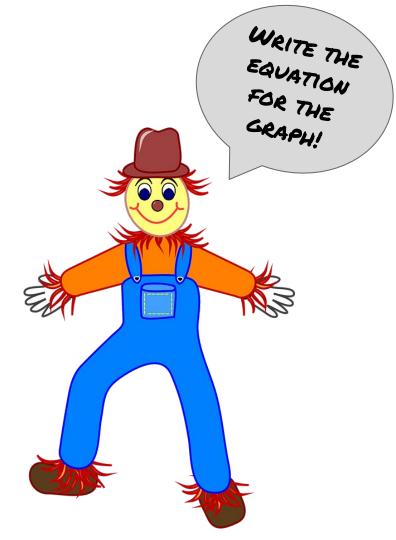
WRITE THE EQUATION FOR THE GRAPH!

QUESTION 24 STATE THE TRANSFORMATIONS:

Y VARIES INVERSELY WITH X. IF Y = 30 WHEN X = 15, FIND X WHEN Y = -5.









DIRECT OR INVERSE?

