Radical Functions (2.1)

p72 day 1

Why do people look better in masks?

Why do we consider some people better looking?

Is beauty objective?

**20.** Suppose a function f(x) has an inverse function,  $f^{-1}(x)$ .

a) Determine  $f^{-1}(5)$  if f(17) = 5.

(5, 17) (17,5)

day 1

Radical Functions (2.1)

p72 day 1

T in C

ex1: The speed of sound changes depending on the temperature of the air according to the function  $s = 331.1\sqrt{1 + \frac{T}{273.15}}$ 

a) find the Domain and Range  $s = 20\sqrt{T + 273.15}$ 

T+273.15 20

T 2-273.15

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T in C

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ex1: The speed of sound changes depending on the temperature of the air according to the function  $s = 20\sqrt{T + 273.15}$ 

b) find the intercepts and draw a sketch

S=20/0+273.15 S int T=0

= 331 m/s

0=20JT+273.15 Tnt 5=0

T=-273,15°C

Radical Functions (2.1)

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ex1: The speed of sound changes depending on the temperature of the air according to the function  $s = 20\sqrt{T + 273.15}$ s in m/s

c) Compare the speed of sound right now to when it's - 25 C.

Radical Functions (2.1)

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ex2: Sketch a graph and give the mapping.

a)  $y = -\sqrt{2x} + 3$ 

Vref

h comp

b)  $y = 3\sqrt{-(x-1)}$ 



