- (u-7)2 ut [6.8] ×

  cos(u) uc[0,TT] v

  at v one-one

  7t<sup>2</sup>+8 nc (-00,0] v

  [nl+7 x function
  (u-7)2 nt [6.8] x
- (a)  $\int (n) = \frac{1+3n}{5-4n}$  y(5-4n) = 1+8n 5y-4ny = 1+3n 3n+4ny = 5y-1 n(3+4y) = 5y-1 f'(n) = 5y-1/3+4y
- 3  $C = \frac{5}{9}(F-32);$   $\frac{9C}{5} = F-32; F = \frac{9C}{5} + 32$   $R \nearrow C'(F) = \frac{9F}{5} + 32 \nearrow D$ D:  $[-459, \infty) : R: [273.15, \infty)$ flip Domain and Range Natures
- (3) match the following not lookad

- (y)  $f(n) = 1 + \sqrt{4 + 7n}$   $(y-1)^2 = 4 + 7n$   $n = \frac{1}{7}((y-1)^2 - 4)$  $D: [\frac{1}{7},\infty) : R: [1,\infty)$
- (b)  $13 = 45(1.6)^{n}$  lu(13) = lu(45) + n lu(1.6) lu(13) - lu(45) = nlu(1.6)
- 6  $f(n) = 4^6$   $ln(y) = 6^N ln(y)$  ln(ln(y)) ln(ln(y)) = n ln(6)

  - (13) 23 cm = 2023

(1) 
$$7e^{5n} = 10e^{8n}$$
  
 $e^{10} + e^{5n} = e^{10} + e^{8n}$   
 $e^{10} + e^{5n} = e^{10} + e^{10} + e^{10}$   
 $e^{10} = e^{10} = e^{10}$   
 $e^{10} = e^{10}$ 

(1) 
$$5^{N-1} = 2^{2N+1}$$
  
 $(N-1) \ln(5) = (2^{N+1}) \ln(2)$   
 $1 \ln(5) - \ln(5) = 2 \ln(2) n + \ln(2)$   
 $1 \ln(6) - 2 \ln(2) n = \ln(6)$   
 $1 \ln(6) - 2 \ln(2) = \ln(5/4)$ 

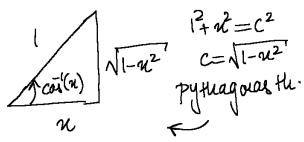
(2) 
$$Pf^{+} = Ob^{+}$$
  
 $lu(P) + tlu(f) = lu(O) + tlu(b)$   
 $t(lu(f)) = lu(O/P)$   
 $tuu t = lu(O/P) + lu(f/b)$ 

(19) match the following prutty pretty early

(16) 
$$ein(ein'(0.7)) = 0.7$$
 Principle tan( $ein'(0.7)$ ) =  $0.7$  Principle tan( $ein'(0.7)$ ) =  $1/3$  it is !a face

tan(
$$\sqrt{3}$$
) =  $\sqrt{3}$   
aucein( $-\frac{\sqrt{2}}{2}$ ) =  $-\frac{17}{4}$   
only carine gan from [021]

(7) ein(acos (n))



Rin(20) = Deint cost then 2nv1-n2 based on the Ale

(是));

$$\frac{3}{5+12^2=13^2}$$
 $\frac{5+12^2=13^2}{12}$ 
 $\frac{1}{12}$ 
 $\frac{1}{12}$ 
 $\frac{1}{12}$ 
 $\frac{1}{12}$ 
 $\frac{1}{12}$ 
 $\frac{1}{12}$ 

Doubling trive if 
$$6.7.1$$

$$10(1.06)^{N} = 20$$

$$1.06^{N} = 2: lu(n)$$

$$n lu(1.06) = lu(2)$$

$$n = lu(2) \approx 11.89 \text{ years}$$

$$lu(1.06)$$