September 14, 2010

Note Title 9/14/2010

§2.4 #32)

$$x^2 + y^2 + 2x + 10y + 17 = 0$$

$$(x^2 + 2x) + (y^2 + 10y) = -17$$

$$\left(x^2 + 2x + \left(\tfrac{2}{2}\right)^2\right) + \left(y^2 + 10y + \left(\tfrac{10}{2}\right)^2\right) = -17 + \left(\tfrac{2}{2}\right)^2 + \left(\tfrac{10}{2}\right)^2$$

$$(x+1)^2 + (y+5)^2 = -17 + 1 + 25$$

$$(x+1)^2 + (y+5)^2 = 9 \qquad (h,k) = (-1,-5)$$

$$(x - -1)^2 + (y - -5)^2 = 3^2 \qquad r = 3$$

#50] Center (1,1) point (-8,-5)

$$(x-h)^2 + (y-k)^2 = r^2$$

$$(x-1)^2 + (y-1)^2 = r^2$$

Find r.

use point

$$(-8-1)^2 + (-5-1)^2 = r^2$$

$$(-9)^2 + (-6)^2 = r^2$$

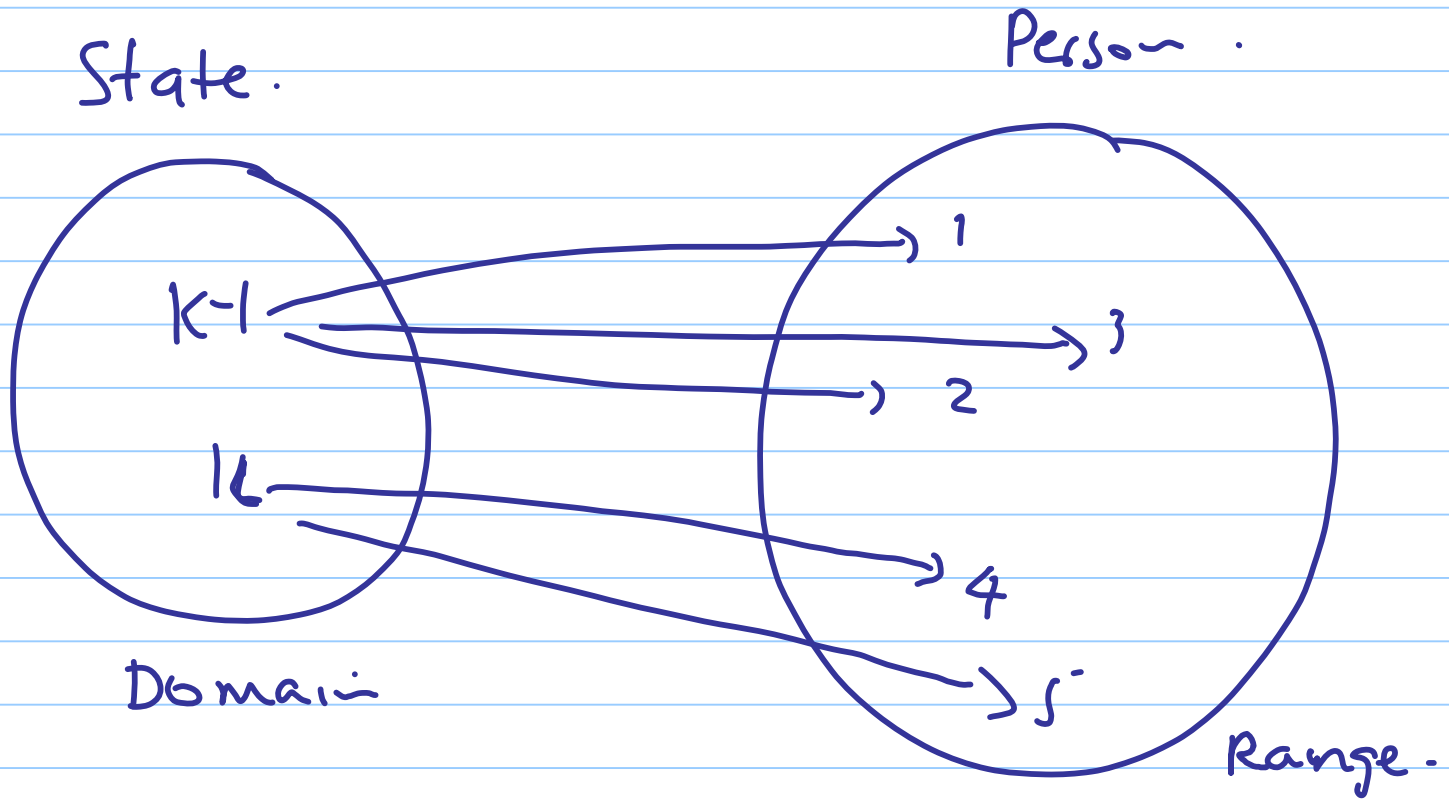
$$81 + 36 = r^2$$

$$117 = r^2$$

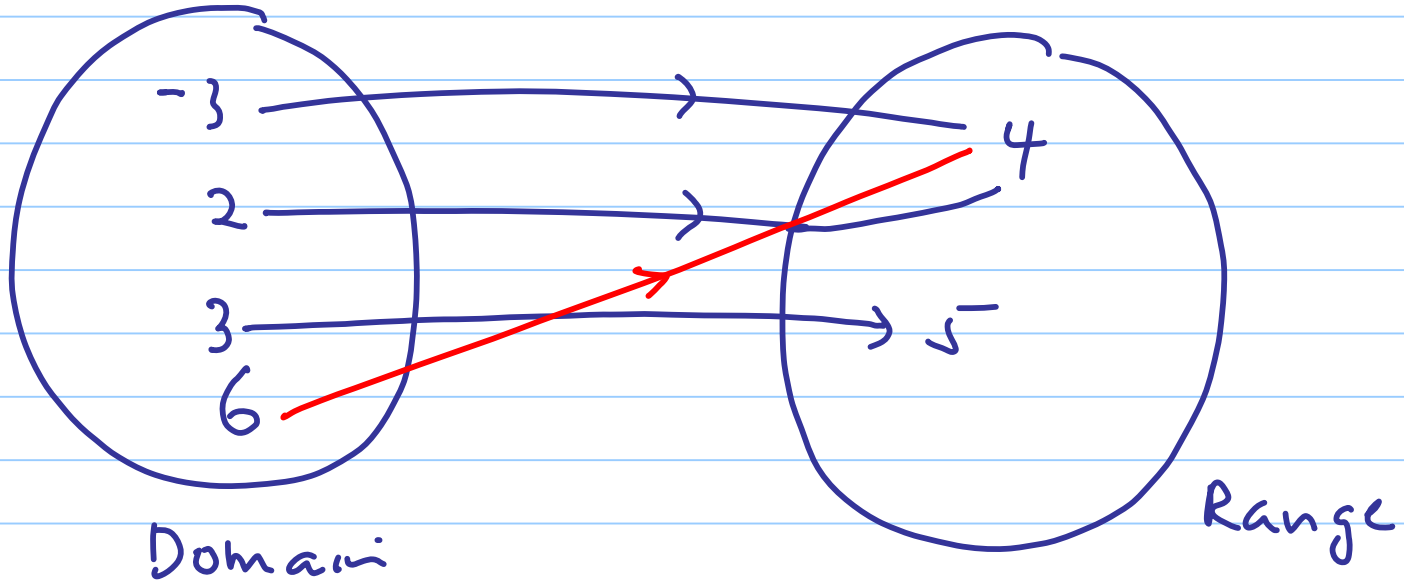
$$(x-1)^2 + (y-1)^2 = 117$$

FUNCTIONS

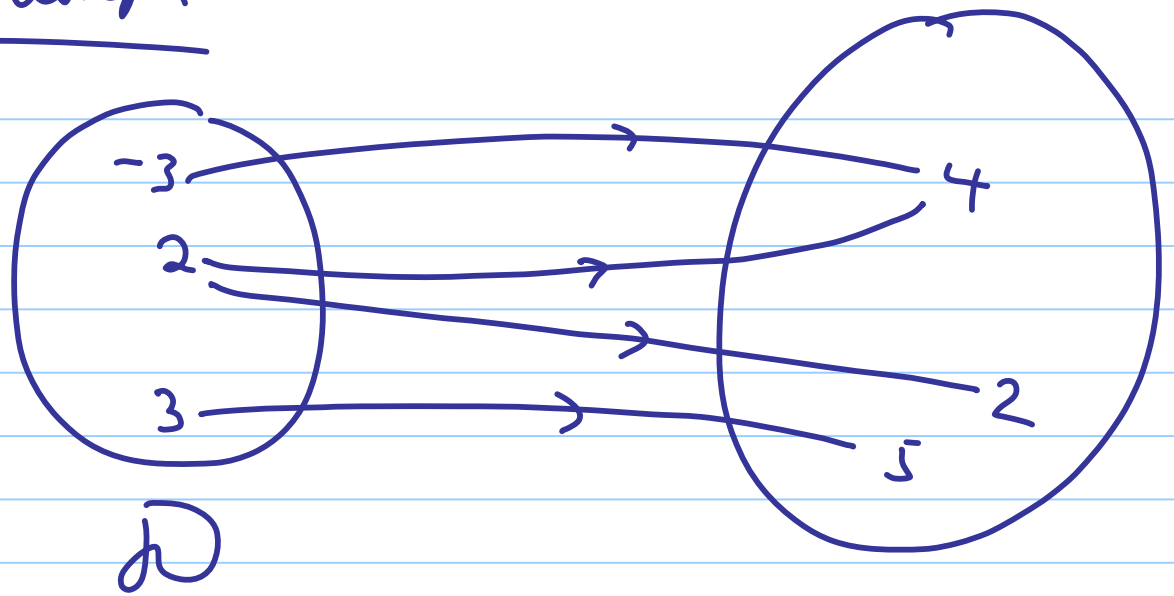
Relation:



Example



Example



NOT a FUNCTION