

prACTice 4

1. How many solutions are there to the equation  $2x^2 - 8 = 0$ ?  
A. 8    B. 2    C. 4    D. 1    E. 0
2. If  $3x = 2y - 1$ , then  $y =$ ?  
A.  $\frac{3}{2}x + 1$     B.  $\frac{3}{2}x - 1$     C.  $\frac{2}{3}x - 1$     D.  $\frac{3x - 1}{2}$     E.  $\frac{3x + 1}{2}$
3. When graphed in the  $(x, y)$  coordinate plane, at what point do the lines  $x - y = 12$  and  $y = 2$  intersect?  
A. (10, 2)    B. (2, 14)    C. (2, 12)    D. (14, 2)    E. (12, 2)

Please go straight into your homework groups.  
Complete ACT #4 and discuss answers to homework.

$$\begin{aligned}2x^2 - 8 &= 0 \\2x^2 &= 8 \\x^2 &= 4 \\x &= \underline{2}, \underline{-2}\end{aligned}$$

$$\begin{array}{r}3x = 2y - 1 \\+1 \quad \quad +1 \\ \hline 3x + 1 = 2y \\ \hline \end{array}$$

$$\frac{3x+1}{2} = y \quad \swarrow$$

$$\frac{3x}{2} + \frac{1}{2} = y \quad \searrow$$

$$x - y = 12 \quad \left. \begin{array}{l} \\ \\ \\ \end{array} \right\}$$

$$y = 2$$

$$x - 2 = 12$$

$$x = 14$$

(14, 2)

D

p. 9 #48

$$(x-y)^2 - 2wz$$

$$(0.4 - \frac{1}{2})^2 - 2 \cdot 6 \cdot -3$$

$$(0.4 - 0.5)^2 - 2 \cdot 6 \cdot -3$$

$$(-0.1)^2 - 2 \cdot 6 \cdot -3$$

$$\frac{1 \cdot 1}{10 \cdot 10} \leftarrow 0.01 - 2 \cdot 6 \cdot -3$$

$$\frac{1}{100} \quad 0.01 - 12 \cdot -3$$

$$0.01 - -36$$

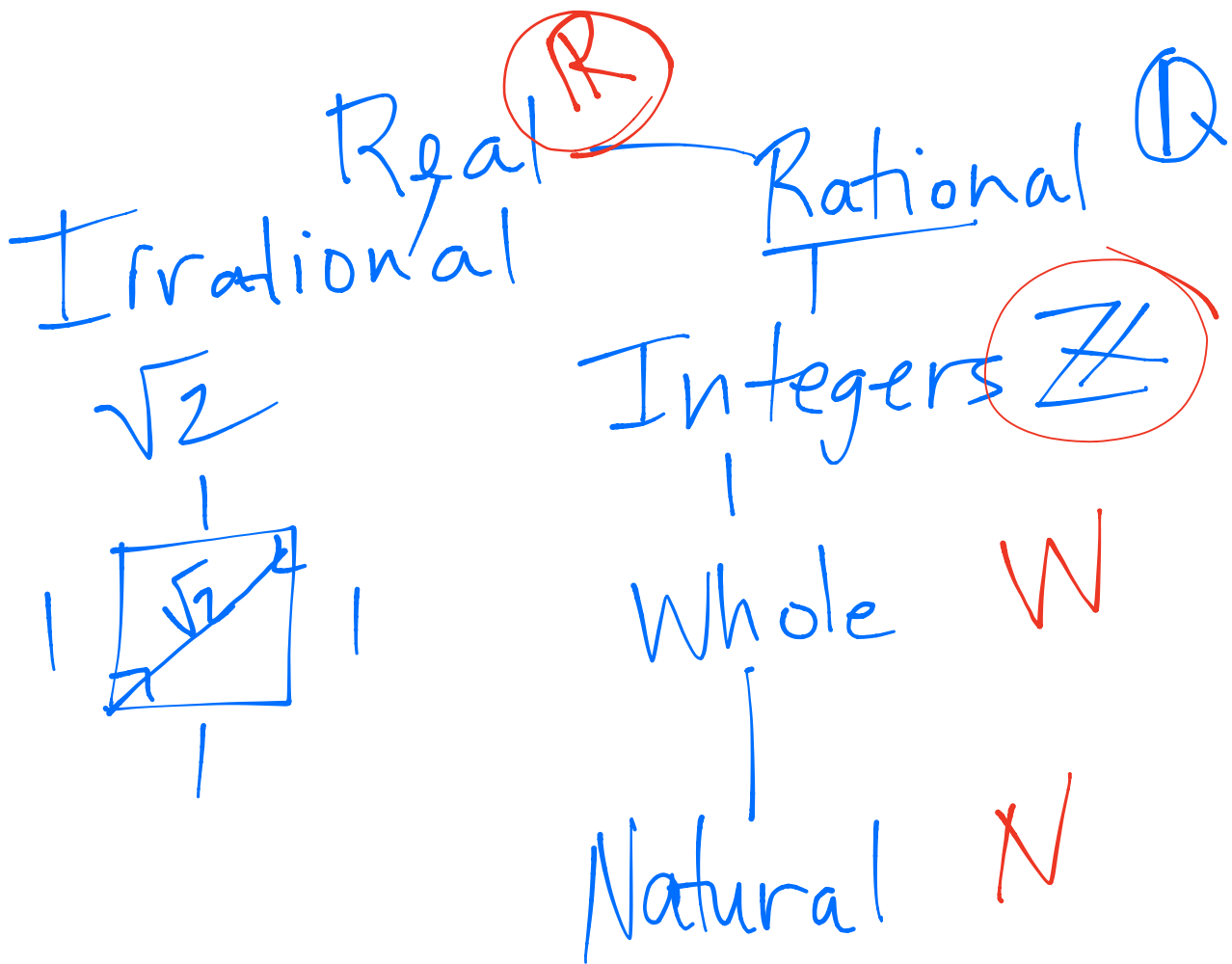
$$0.01 + 36$$

$$\boxed{36.01}$$

$$(b-d)e^2$$
$$(-8-3)(-1)^2$$

$$f(1)(1)$$

$$-11$$



# Additive Identity

Add 0.

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## Multiplicative Inverse

Reciprocal  $\frac{2}{3} \cdot \frac{3}{2} = 1$

## Associative $(a+b)+c = a+(b+c)$

## Commutative $a+b = b+a$

## Distributive

$$a(b+c) = ab+ac$$

NOT Distributive

$$a + (b + c)$$

$$a(bc) = a \cdot b \cdot c$$