

$$x \in \mathbb{N}$$

$$x \in \mathbb{Z}$$

$$3 \leq x \leq 7$$

$$x = \{3, 4, 5, 6, 7\}$$

x bilangan apa?

x bilangan real

$$x = \{3, 3.1, \dots\}$$

$$x \leq 7$$

$$x = \{7, 6, 5, \dots\}$$

3 dibagi 2 hasilnya?

$$3 \bmod 2 = 1$$

$$\begin{array}{r} 1 \\ 2 \overline{) 3} \\ \underline{2} \\ 1 \end{array}$$

$$13 \bmod 5 = 3$$

$$\begin{array}{r} 2 \\ 5 \overline{) 13} \\ \underline{10} \\ 3 \end{array}$$

$$a \pm b \bmod n = (a \bmod n) \pm (b \bmod n) \bmod n$$

$$2023 \bmod 11$$

$$((2000 \bmod 11) + (23 \bmod 11)) \bmod 11$$

$$11 \times 200 = 2200$$

$$\begin{array}{r} 181 \\ 11 \overline{) 2000} \\ \underline{1991} \\ 9 \end{array}$$

$$(9+1) \bmod 11$$

$$10 \bmod 11$$

Sisa bagi 10 dan 11

$$10 = 10$$

$$a \times b \bmod n$$

$$= (a \bmod n) \times (b \bmod n) \bmod n$$

x dibagi n sisa a

$$x = kn + a$$

k = bilangan cacah

$$3 \bmod 2 = 1$$

$$5 \bmod 2 = 1$$

x dibagi 2 sisa 1

$$x = 2k + 1$$

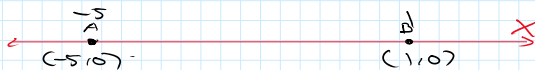
x bilangan ganjil

$$x = 2k + 1$$

$$k = \text{bil. cacah} = \{0, 1, 2, \dots\}$$

$$x = \{1, 3, 5, \dots\}$$

Nilai Mutlak



$$|-5-1| = |-6|$$

$$= 6$$

$$|1-(-5)| = |1+5|$$

$$= 6$$

$$\begin{array}{l} \text{umur Ibu} = 30 \\ \text{umur Adik} = 15 \end{array} \quad \left. \begin{array}{l} \\ \end{array} \right\} \begin{array}{l} \text{Seri} \\ \text{usia} \end{array}$$

$$|A-1| = |1-A|$$

\* Jarak

\* Seri

$$|x| = \text{posisi}$$

$$|-6| = 6$$

$$|-(x+5)| = x+5$$

$$|-x-2| = x+2$$

$$|x| = 6$$

$$|x| = \begin{cases} x, & x \geq 0 \\ -x, & x < 0 \end{cases}$$

$$* x = 6, x \geq 0$$

$$* -x = 6, x < 0$$

$$x = -6, x < 0$$

$$|x-2| = 1$$

$$* x-2 = 1, x \geq 0 \rightarrow x=3$$

$$x-(x-2) = 1, x < 0 \rightarrow x=-1$$

$$x=3$$

$$x=-1$$

$$|x-2| = 1$$

$$a. x=3 \text{ atau } x=1$$

$$b. x=3$$

$$c. x=1$$

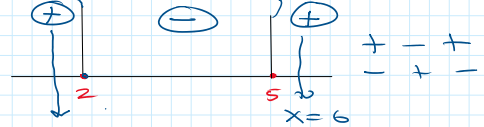
$$d. x=3 \text{ dan } x=1$$

$$x^2 - 7x + 10 \geq 0$$

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$$(x-2)(x-5)$$

$$x=2 \vee x=5$$



$$x=1$$

$$1^2 - 7 \cdot 1 + 10 = 4 \quad (+)$$

$$6^2 - 42 + 10 = 4 \quad (+)$$

$$x \leq 2 \text{ atau } x \geq 5$$

$$x^2 - 7x + 10 \leq 0 \rightarrow 2 \leq x \leq 5$$

$$|x(x+2)| = x+2$$

$$|x| = 5$$

$$x = 5 \quad \text{or} \quad x = -5$$

$$|5| = 5$$

$$|x| = \begin{cases} x, & x \geq 0 \\ -x, & x < 0 \end{cases}$$

$$|x| = 6$$

$$x = 6 \quad \text{or} \quad x = -6$$

$$|x| = 4 \quad \begin{cases} x = 4, & x \geq 0 \\ x = -4, & x < 0 \end{cases}$$

$$|6| = 6$$

$$|-6| = 6$$