

LDDR Niveau 2 TE 7 : Ensembles - Calcul Algébrique

Prec-Pre small test (16.09.2016)

1) $A = [2; 7[$ $\bar{A} = ?$

2) $]7; 12[\cap [6; 13] =$

3) $\{x \in \mathbb{R} \mid |x| \geq 4\} =$

4) $\{x \in \mathbb{R} \mid 3 < x^2 \leq 10\} =$

5) $\sqrt[3]{x^2} = x^{\dots}$ $\sqrt[5]{x} = x^{\dots}$

6) $25^{-1/2} =$

$8^{2/3} =$

$\frac{x^3}{\sqrt{x}} : x^{-2} = x^{\dots}$

$\sqrt[3]{a^9} = a^{\dots}$

7) $\frac{2}{\sqrt{3}} = \dots$

$\frac{4}{1-\sqrt{5}} = \dots$

Prec-Training 16.09.2016

$A = [-5; 7[$ $B =]-7; 5]$ $C = [3; 11[$

1) $A \cup B =$

2) $B \cup C =$

3) $A \setminus B =$

4) $A \cap B =$

5) $\bar{A} =$

6) $\overline{(B \cup C)} =$

7) $\{x \in \mathbb{R} \mid x^2 > 16\} =$

8) $\{x \in \mathbb{R} \mid |x| \leq 5\} =$

9) $\{x \in \mathbb{R} \mid 1 < |x| < 8\} =$

10) $\sqrt{a} = a^{\dots}$

$\sqrt[3]{a} = a^{\dots}$

$\sqrt{a^5} = a^{\dots}$

$\frac{1}{a} = a^{\dots}$

$\frac{1}{a^3} = a^{\dots}$

$\frac{1}{\sqrt[3]{a^2}} = a^{\dots}$

11) $\frac{11}{\sqrt{8}} =$

$\frac{3+\sqrt{2}}{1-\sqrt{2}} =$