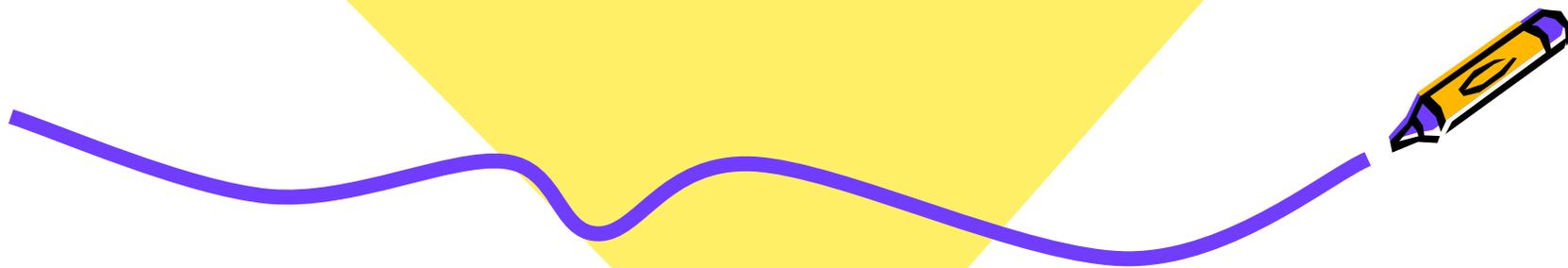




# Иррациональные уравнения

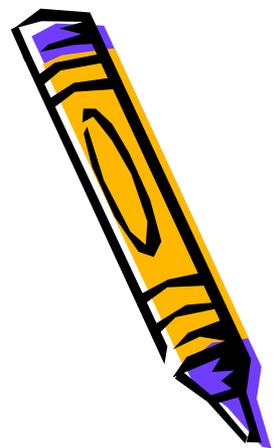
Задания для устного счета



Какие из чисел являются  
корнями уравнения?

$$\sqrt{x^2 - 9} = 4$$

?	?	?	?	?	?	?	?	?	?
5	-4	0	9	3	-3	-5	25		



Корнем каких уравнений является  
число  $x = 3$  ?

$$\sqrt{2x^2 + 7} = 5 \quad ?$$

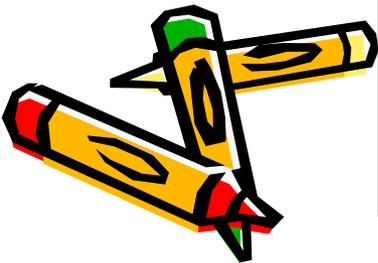
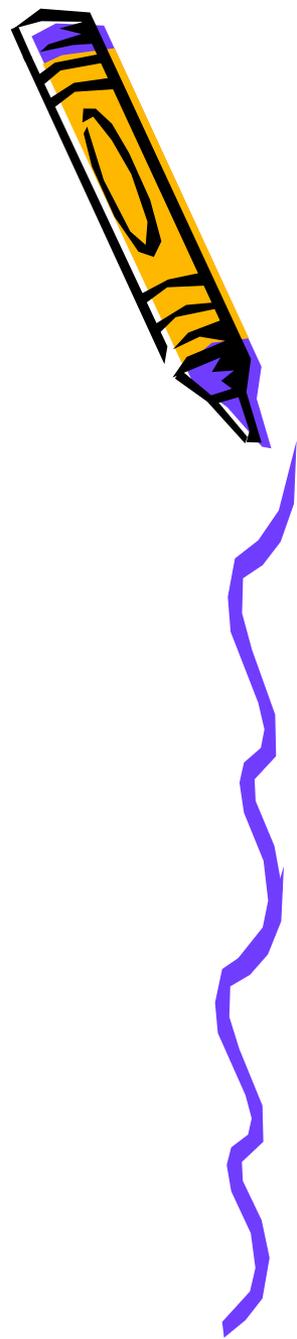
$$\sqrt[3]{x^2 - 10} = -1 \quad ?$$

$$\sqrt[3]{x^2 - 1} = 8 \quad ?$$

$$\sqrt[5]{35 - x} = 2 \quad ?$$

$$\sqrt[4]{2x^3 + 10} = 4 \quad ?$$

$$\sqrt[3]{x - 11} = -2 \quad ?$$



Корнем каких уравнений является  
число  $x = -2$  ?

$$\sqrt{2x - 21} = -5 \quad ?$$

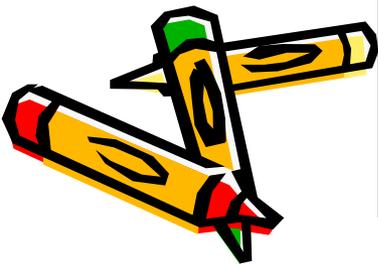
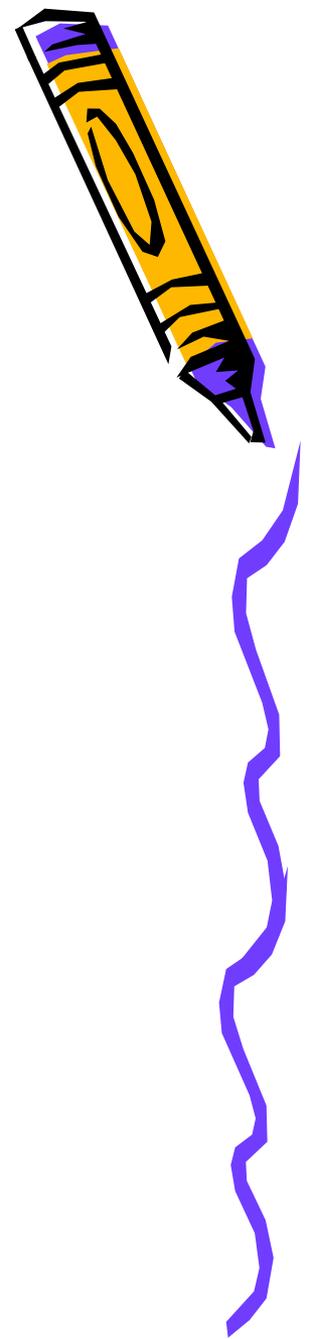
$$\sqrt[3]{x^2 + 23} = 3 \quad ?$$

$$\sqrt[3]{2 - 3x} = 2 \quad ?$$

$$\sqrt[5]{34 - x} = 2 \quad ?$$

$$\sqrt[3]{2x^3 + 15} = 1 \quad ?$$

$$\sqrt[4]{8 - x^3} = 2 \quad ?$$



Найдите корень  
уравнения:



$$\sqrt{3x^2 - 10x + 7} = \sqrt{3x^2 - 10x + 7} + 1$$



Правильный ответ: ~~6~~ ~~5~~ ~~4~~ ~~3~~ ~~2~~ ~~1~~ ~~0~~ ~~-1~~ ~~-2~~ ~~-3~~ ~~-4~~ ~~-5~~ ~~-6~~ ~~-7~~ ~~-8~~ ~~-9~~ ~~10~~ ~~11~~ ~~12~~ ~~13~~ ~~14~~ ~~15~~ ~~16~~ ~~17~~ ~~18~~ ~~19~~ ~~20~~ ~~21~~ ~~22~~ ~~23~~ ~~24~~ ~~25~~ ~~26~~ ~~27~~ ~~28~~ ~~29~~ ~~30~~ ~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~ ~~36~~ ~~37~~ ~~38~~ ~~39~~ ~~40~~ ~~41~~ ~~42~~ ~~43~~ ~~44~~ ~~45~~ ~~46~~ ~~47~~ ~~48~~ ~~49~~ ~~50~~ ~~51~~ ~~52~~ ~~53~~ ~~54~~ ~~55~~ ~~56~~ ~~57~~ ~~58~~ ~~59~~ ~~60~~ ~~61~~ ~~62~~ ~~63~~ ~~64~~ ~~65~~ ~~66~~ ~~67~~ ~~68~~ ~~69~~ ~~70~~ ~~71~~ ~~72~~ ~~73~~ ~~74~~ ~~75~~ ~~76~~ ~~77~~ ~~78~~ ~~79~~ ~~80~~ ~~81~~ ~~82~~ ~~83~~ ~~84~~ ~~85~~ ~~86~~ ~~87~~ ~~88~~ ~~89~~ ~~90~~ ~~91~~ ~~92~~ ~~93~~ ~~94~~ ~~95~~ ~~96~~ ~~97~~ ~~98~~ ~~99~~ ~~100~~ ~~101~~ ~~102~~ ~~103~~ ~~104~~ ~~105~~ ~~106~~ ~~107~~ ~~108~~ ~~109~~ ~~110~~ ~~111~~ ~~112~~ ~~113~~ ~~114~~ ~~115~~ ~~116~~ ~~117~~ ~~118~~ ~~119~~ ~~120~~ ~~121~~ ~~122~~ ~~123~~ ~~124~~ ~~125~~ ~~126~~ ~~127~~ ~~128~~ ~~129~~ ~~130~~ 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