

WAD 10 $(x^2 - 25)(x^2 - 5x + 6) < 0$

$(x-5)(x+5)$

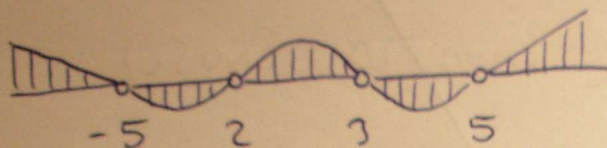
$\Delta = 25 - 24$

$\Delta = 1$

$x_3 = \frac{5-1}{2} = \frac{4}{2} = 2$

$x_4 = \frac{5+1}{2} = \frac{6}{2} = 3$

$x_1 = 5; x_2 = -5; x_3 = 2; x_4 = 3$



$x \in (-5; 2) \cup (3; 5)$

WAD 11 $x^3 + 2x^2 - 3x - 10 < 0$

szukam pierwiastków w podzielnikach cyfry wolnego 10^4

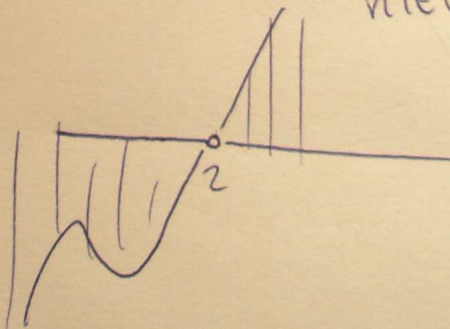
wz $x=2$ $2^3 + 2 \cdot 2^2 - 3 \cdot 2 - 10 = 8 + 8 - 6 - 10 = 16 - 16 = 0$

$(x^3 + 2x^2 - 3x - 10) : (x - 2) = x^2 + 4x + 5$

$\Delta = 16 - 20$

$\Delta < 0$ brak pierwiastków
niech

$$\begin{array}{r} x^3 + 2x^2 - 3x - 10 \\ -x^3 + 2x^2 \\ \hline = 4x^2 - 3x \\ -4x^2 + 8x \\ \hline = 5x - 10 \\ -5x + 10 \\ \hline = 0 \end{array}$$



$x \in (-\infty; 2)$