1) $\frac{{}^{2}\cancel{10}x^{3}y}{{}_{3}\cancel{15}x^{4}} = \frac{2\cdot y}{3\cdot x^{3}}$

2) ОДЗ: $x \neq 0$, $2x+5 \neq 0$, $x \neq -2{,}5$

$x \in (-\infty; -2{,}5) \cup (0; +\infty)$

3) $\frac{3m-n}{(3m-n)^{2}} = \frac{1}{3m-n} = \frac{1}{3\cdot 5-10} = \frac{1}{5} = 0{,}2$

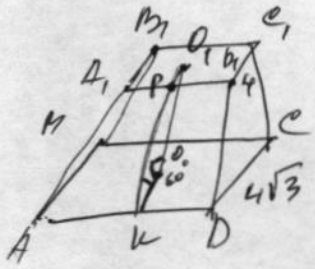
4) $\frac{2a-1+5a}{5b} = \frac{7a-1}{5b}$

$\frac{3-2(x+1)}{(x-1)(x+1)} = \frac{3-2x-2}{(x-1)(x+1)} = \frac{1-2x}{(x-1)(x+1)}$

5) $\frac{(x+4)\cdot 3(x-3)\cdot 4(x+4)}{(x-3)\cdot(x+4)^{2}\cdot 15} = \frac{4}{5}$

6) $\frac{3\cdot(2x-1)(2x+1)}{(2x-1)\cdot(3x-1)} = \frac{6x+3}{(3x-1)} - \frac{6}{3x-1} = \frac{6x-3}{3x-1} = \frac{3(2x-1)}{3x-1}$

$\frac{3(2x-1)\cdot 3}{(3x-1)\cdot(2x-1)} = \frac{9+3x-10}{3x-1} = \frac{3x-1}{3x-1} = 1$

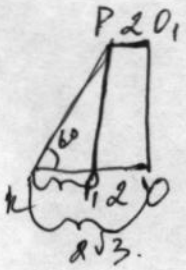


$OK = \frac{1}{2}CD = 2\sqrt{3}$

$OK = \frac{OK}{\cos 60} = 2\cdot 2\sqrt{3} = 4\sqrt{3}$

Все грани — р/бочие трап.

$S_{полн} = S_{осн_1} + S_{осн_2} + 4S_{бок\,грани}$



$PO_1 = \frac{1}{2}C_1D_1 = 4/2 = 2$

$KP_1 = 2\sqrt{3} - 2$

$KP = \frac{KP_1}{\cos 60} = 4\sqrt{3} - 4 = h_{трап}$

$S_{бок\,трап} = \frac{(A_1O_1 + AD)}{2}\cdot h_{трап} = \frac{4+4\sqrt{3}}{2}\cdot(4\sqrt{3}-4) =$

$= 2(2+2\sqrt{3})(2\sqrt{3}-2) = 2\cdot 8 = 16$

$S_{осн1} = (4\sqrt{3})^{2} = 45$

$S_{осн2} = 4^{2} = 16$

$S_{полн} = 45 + 16 + 16 = 77$