20. Решите уравнение $\frac{1}{(x-4)^2}-\frac{7}{x-4}+10=0$.

1/(x-4)^2 - 7/(x-4) + 10=0
1/(x-4)^2 - 7*(x-4)/(x-4)^2 + 10*(x-4)^2/(x-4)^2=0
(1 - 7*(x-4) + 10*(x-4)^2) / (x-4)^2=0
(1 - 7*(x-4) + 10*(x-4)^2)=0 (x-4)^2!=0
1 - 7*(x-4) + 10*(x^2-8x+16)=0
1 - 7x + 28 + 10x^2 - 80x + 160 =0
189 - 87x + 10x^2=0
10x^2- 87x+189=0
a=10 b=-87 c=189
b^2-4ac
D=(-87)^2-4*10*189=7569-4*10*189=7569-7560=9
VD=3
x1=(-b+VD)/(2a)
x2=(-b-VD)/(2a)
x1=(-(-87)+3)/(2*10)=90/20=45/10=4,5
x2=(-(-87)-3)/(2*10)=84/20=42/10=4,2

(x-4)^2=(x-4)*(x-4)=(x-4)*x + (x-4)*(-4)=
=x^2-4x-4x+16=x^2-8x+16

87	189
87	40
609	000
696	756
7569	7560

Ответ:4,5 ; 4,2.