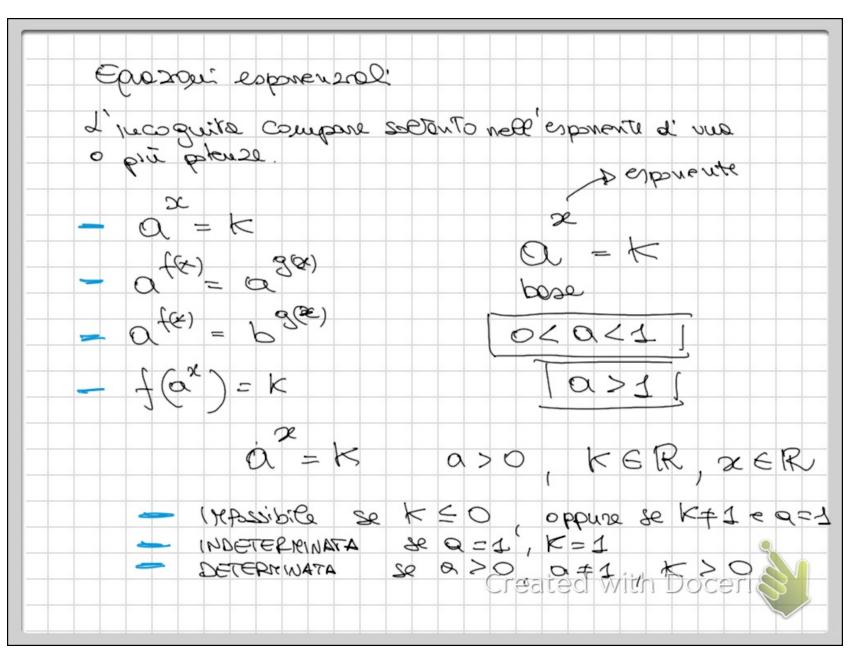
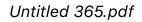
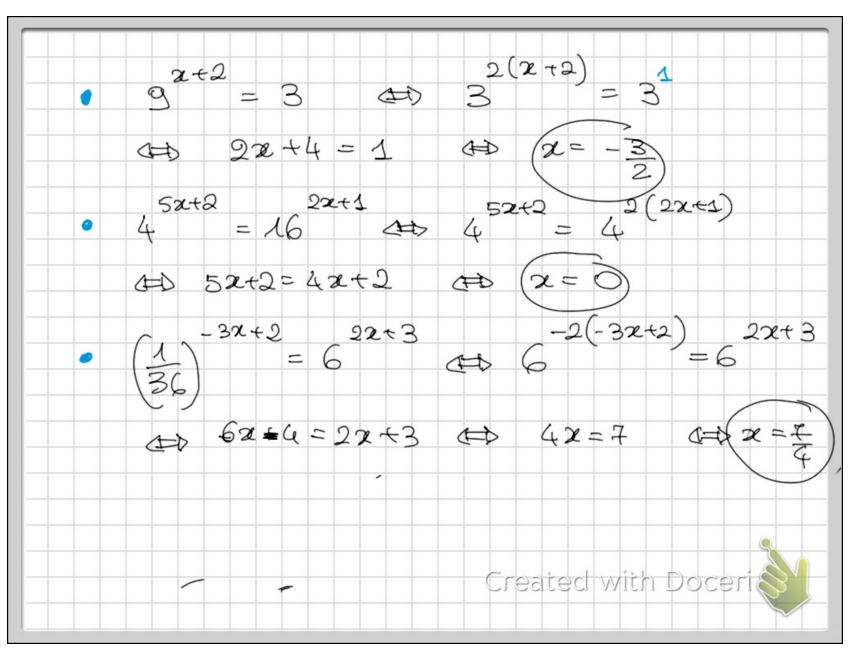


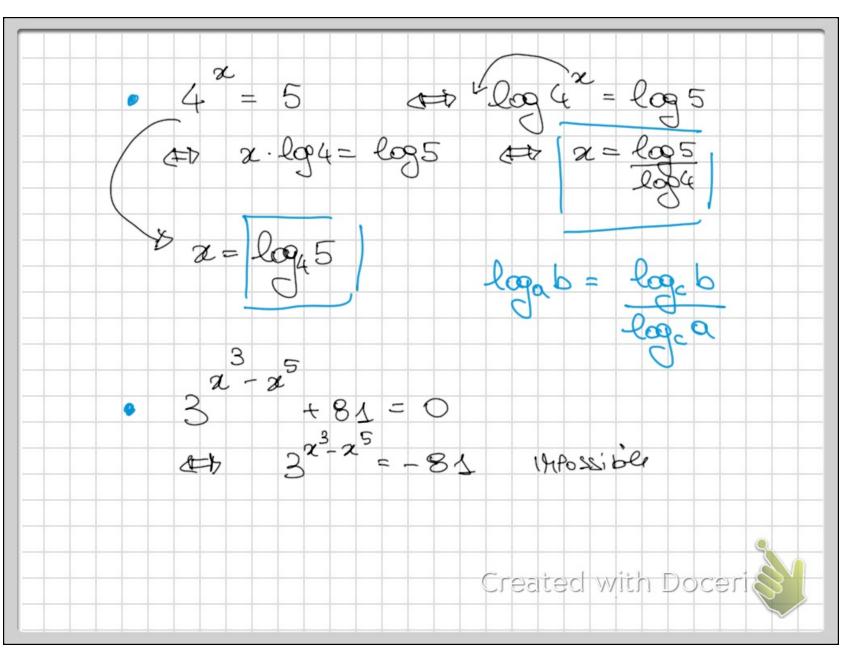
1.8.5 Esercizi proposti Risolvere le seguenti disequazioni logarit	miche:
1. $\log_3(2x+1) > 0$	R+
2. $\log_5(x-2) < 0$]2,3[
3. $\log_{\frac{1}{2}}(3x+5) < 0$	$]-\frac{4}{3},+\infty[$
4. $\log_{\frac{1}{2}}(3x+5) < 1$	$]-\frac{3}{2},+\infty[$
5. Log $(x-3) < 1$]3,13[
6. Log $(x^2 - 15x) > 2$	$]-\infty,-5[\cup]20,-\infty[$
7. $\log_3(\sqrt{x-1}-2) < 0$ 8. $\log_3\log_3(2x-5) < 0$]5, 10[]3, 4[
9. $\log \log(x^2 - 6) < 0$ 10. $\log^2 x - 4\log x > 0$]-4, $-\sqrt{7}[\cup]\sqrt{7}, 4[$]0, 1[∪]10 ⁴ , +∞[Created with Doceri

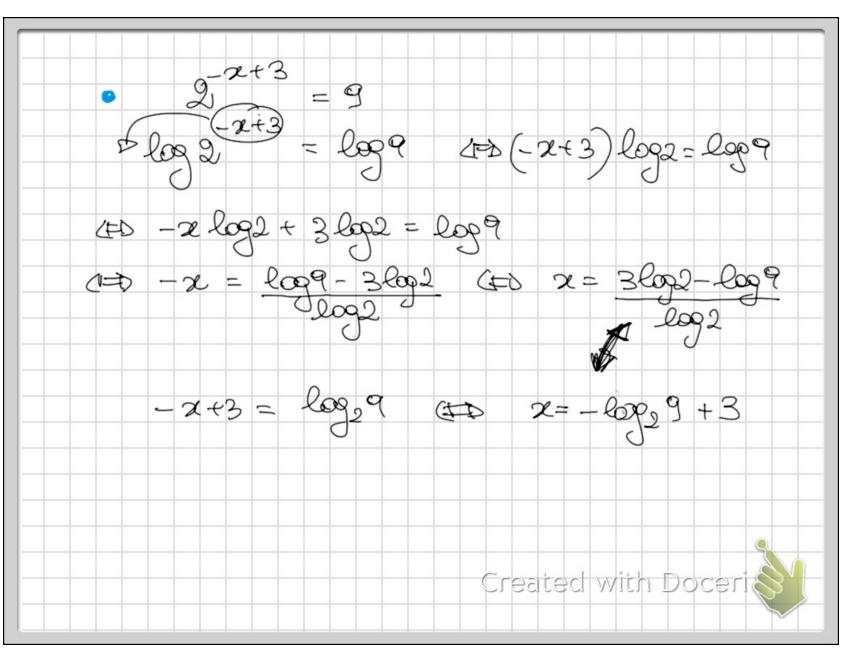
0
$\left[\sqrt{2}, +\infty\right[$
]0,9[
$]\frac{1}{5}, +\infty[$
$\left]0, \sqrt[5]{\frac{1}{2}}\right[$
$]-\frac{1}{3},-\frac{2}{9}[$
$]0,1[\cup]2,+\infty[$
[¹ / ₃ ,9]
$]0, \frac{1}{25}[\cup]5, +\infty[$
Created with Boleri

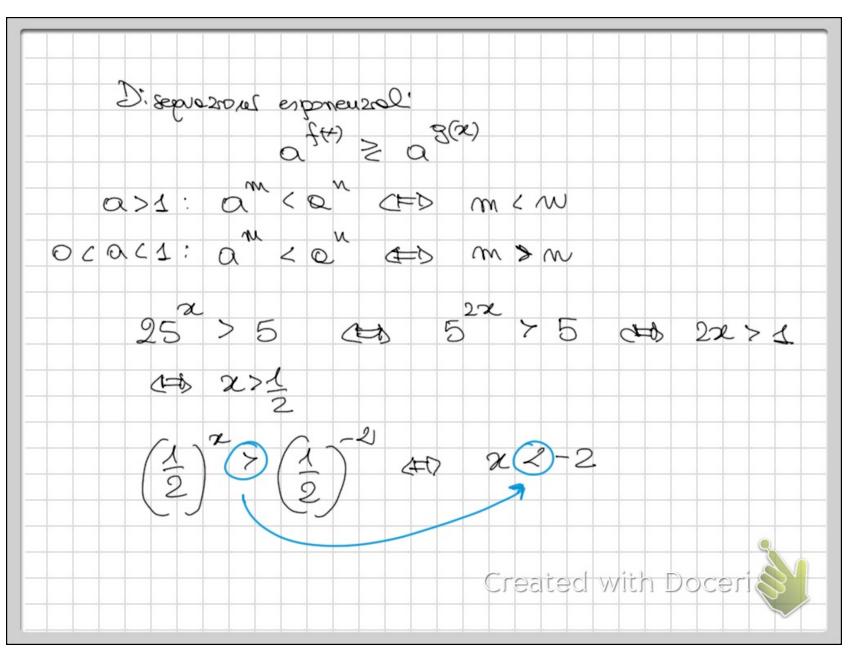


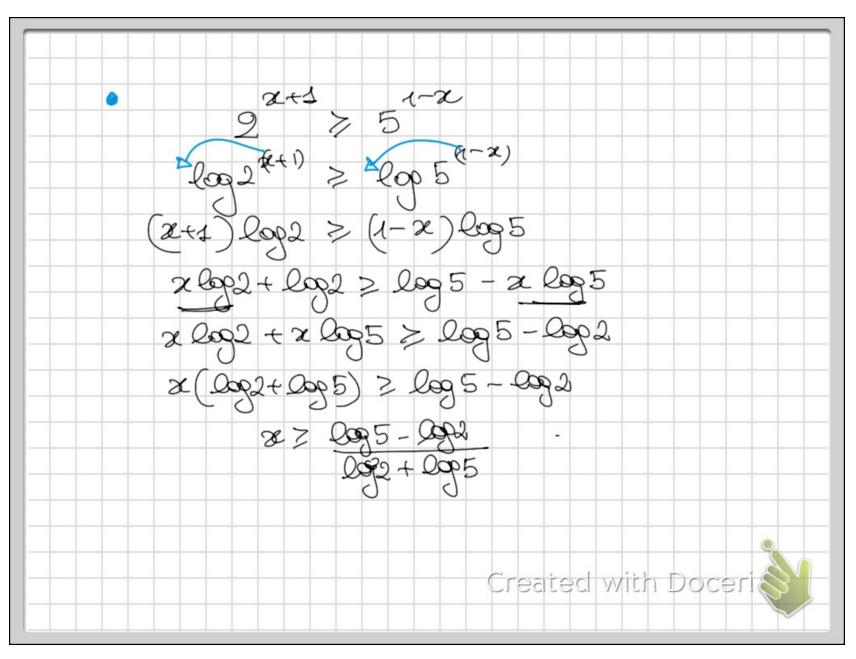


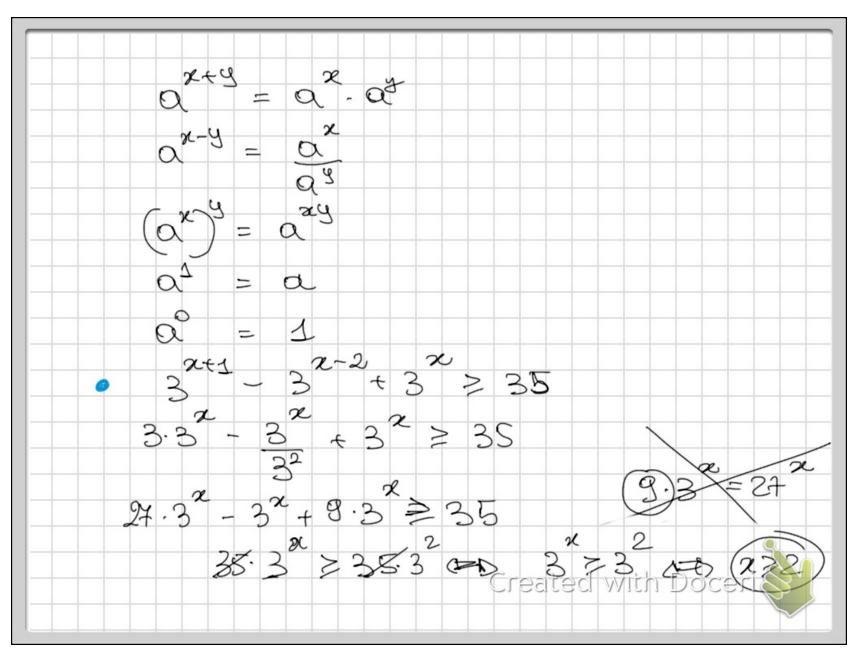


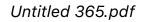


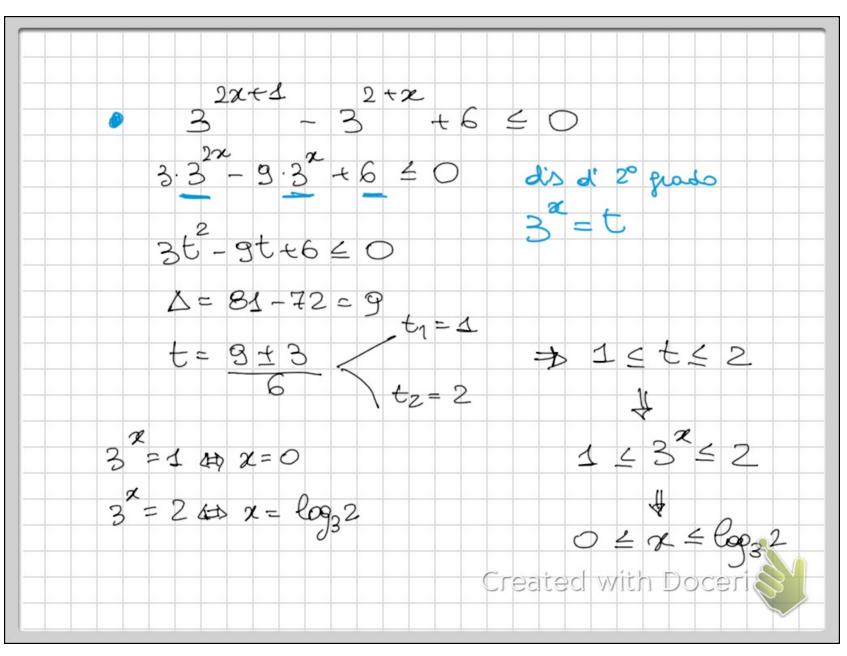


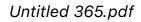


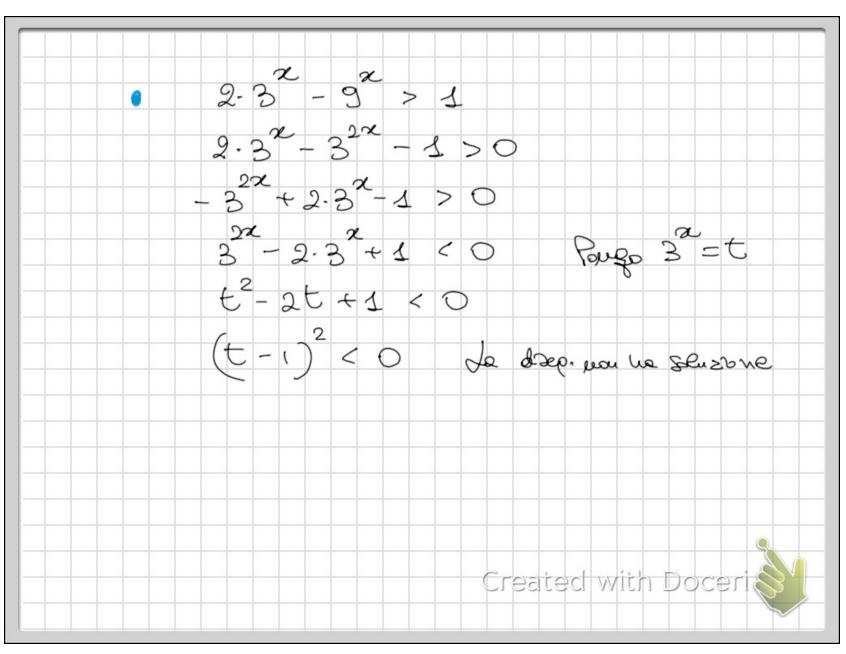












$2. \ \frac{3^{x+1}}{27^{2x}} < \frac{1}{3^{x^2+5}}$	12,31
$3. 4\sqrt{2} < \frac{1}{\sqrt{8^x}}$]-∞,-§[
$4. \ \sqrt{2^x} \ge 8 \cdot \sqrt[3]{4^{x-1}}$]-∞,-14]
5. $2^{\frac{2\pi+4}{\pi}} < \left(\frac{1}{4}\right)^{-2}$	$\mathbb{R}^+ \cup]2, +\infty[$
$6. \ \frac{3^{x-1}}{27^{1-x}} < \frac{9}{3^{2+x}}$]-∞, \$[
7. $\frac{2^{x-1} \cdot 4^{1+x}}{6^{1-x}} < 3$	$\left]-\infty,\frac{\log 9}{\log 48}\right[$
$8. \ 3^x + 3^{x+1} + 3^{x+2} \ge 39$	[1,+∞[
9. $2^{2x+1} + 4^{x-1} + 4^x < 13$]-∞,1[
$10. \ 3^{x+1} - 3^{x-2} + 3^x \ge 35$ $11. \ 4^x - 3 \cdot 2^x + 2 < 0$	[2,+∞]
$11. 4^{-} - 3 \cdot 2^{-} + 2 < 0$ $12. 5^{x} - 4 \ge 5^{1-x}$]0,1] [1,+∞[
13. $3 \cdot 2^x - 2^{-x} - 2 > 0$	R+
14. $2^x + \frac{4}{2^x} \ge 4$	R
15. $\frac{2^x}{2^x+1} + \frac{2^x}{2^x+4} \le 1$]-∞,1]
16. $\frac{4 \cdot 7^{x-1}}{21 + \sqrt{7^x}} \ge 1$	Created with Doceri

