1. $4sin^{2}x+cosx-3\frac{1}{2}=0;$
2. $3sin^{2}2x+7cos2x-3=0;$
3. $2cos^{2}x+2\sqrt{2}\sin(x)-3=0;$
4. $cos2x-5sinx-3=0;$
5. $2cos^{2}x+5\sin(x)-4=0;$
6. $2tg^{2}3x-3tg^{2}3x+1=0;$
7. $25sin^{2}x+100\cos(x=89; )$
8. $\cos(2x)+3\sin(x)=2;$
9. $cos^{4}2x+6cos^{2}2x=1\frac{9}{16};$
10. $2tg x-2ctg x=3;$
11. $\cos(2x)+sin^{2}x+\sin(x)=0,25;$
12. $cos^{2}x+sin^{4}x=1;$
13. $5\sin(\frac{x}{6})-\cos(\frac{x}{3})+1=0;$
14. $tg^{2}x-2tg x=3;$
15. $2sin^{2}x-7\cos(x-5)=0;$
16. $2cos^{2}3x+sin3x+1=0;$
17. $1+2cos^{2}x+2\sqrt{2}\sin(x)+\cos(2x)=0;$
18. $1-5\sin(x)+2cos^{2}x=0;$
19. $2\cos(2x)-4\cos(x)=1;$
20. $4-5\cos(x)+2cos^{2}x=0;$
21. $tg x+ctg x=2;$
22. $2\sin(x)+5=2\cos(2x);$
23. $\cos(2x)=2\sin(x)-\frac{1}{2};$
24. $3cos^{2}2x+7\sin(2x)-3=0;$
25. $3+2\sin(2x)=tg x+ctg x;$
26. $\sin(3x)-3\cos(6x)=2;$
27. $\frac{12}{cos^{2}x}-25tg x=0;$
28. $cos^{2}x+3 sin^{2}x=2;$
29. $2\left(sin^{2}x-cos^{2}x\right)=-1;$
30. $tg^{2}x-\frac{5}{\cos(x)}+7=0;$
31. $\cos(2x)=2 sin^{2}x;$
32. $sin^{2}x-cos^{2}x+2\sin(x)+1=0;$
33. $2 cos^{2}x-\sin(x)-1=0;$

$$ 8\leq x\leq 40; $$

1. $\cos(2x=1-3\cos(x))$

$$ 1\leq x\leq 50;$$

1. $ \frac{1}{1+cos^{2}x}+\frac{1}{sin^{2}x}=\frac{16}{11};$
2. $6 sin^{2}x+5\cos(x)-7=0;$
3. $29-36sin^{2}\left(x-2\right)-36\cos(\left(x-2\right))=0;$
4. $\cos(2x+767\sin(x)+383=)0;$
5. $sin^{4} \frac{x}{2}-cos^{2}\frac{x}{2}=\frac{1}{2};$
6. $\left(\cos(2x)-\sin(2x)\right)^{2}=\sin(4x);$
7. $\frac{2}{3}cos^{2}x+\sin(x)=1;$
8. $sin^{2}x-\cos(2x)+2\sin(x)=0;$
9. $1+\sin(2x)=24 sin^{2}x-24 sin^{4}x;$
10. $3 sin^{2}2x+\sin(2x)=\left(\sin(x)-\cos(x)\right)^{2};$
11. $3\cos(x)+5\sin(\frac{x}{2})+1=0;$
12. $2 sin^{2}x+5\sin(\left(\frac{3π}{2}-x\right))=2;$
13. $tg^{2}x-2 sin^{2}x=0;$
14. $ctg x+\frac{\sin(x)}{1+\cos(x)}=2;$
15. $2\cos(x)-\cos(2x)-cos^{2}2x=0;$
16. $\sin(5x)=\frac{2}{3}cos^{2}5x;$
17. $8 sin^{2}2x-2 cos2x=5;$
18. $\cos(\frac{3π+x}{3})∙\cos(\frac{9π+2x}{6})=-\frac{5}{48}tg\left(2arctg1,5\right);$
19. $\frac{4}{π}arctg1-3\cos(x)+\cos(2x)=\frac{\cos(\left(π-x\right))}{ctg 2x+tg\left(x+\frac{π}{2}\right)};$
20. $\sin(x-)\cos(x)-2\left(1+\cos(2x)\right)\sin(x)=4sin^{3}\left(7π-x\right);$
21. $ctg\left(\frac{3π}{2}+x\right)-tg^{2}x=\left(\cos(2x)-1\right)∙\frac{1}{cos^{2}x}∙\frac{2tg\frac{π}{8}}{1-tg^{2}\frac{π}{8}};$
22. $tg^{2}x-374tgx-374=2\sin(70°)\cos(20°)-\sin(50°);$
23. $ $

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