(N5 Revision)

1. $f(x)=5-3 x$. Find the value of $f(a)+f(-a)$.
2. Solve these equations $(0 \leq x \leq 360)$ :
(a) $7 \tan x^{\circ}-4=0$
(b) $4 \sin ^{2} x^{\circ}-1=0$
3. Find the length of AC , correct to 3 significant figures.

4. Find the area of the triangle in Q3, above .
5. $\quad K=\sqrt{\frac{m-n}{m+n}}$. Change the subject of this formula to $m$.
6. Solve each of these quadratic equations:
(a) $x^{2}-x=12$
(b) $6 x^{2}-5=7 x$
(c) $\frac{1}{8} x^{2}=-\frac{x}{4}+1$
7. Find the roots of these equations, correct to 3 significant figures.
(a) $x^{2}-2 x-5=0$
(b) $2 x^{2}-x-2=0$
8. In each of these diagrams find the value of $x$.
(a)

(c)


Outer square has side 2 x .
Inner square has side $(x+1)$. Shaded area 78 sq units.

