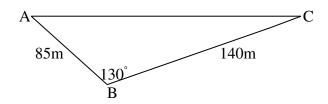
New Higher Homework 2

(N5 Revision)

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



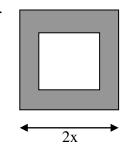
- 4. Find the area of the triangle in Q3, above.
- $K = \sqrt{\frac{m-n}{m+n}}$. Change the subject of this formula to m. 5.
- Solve each of these quadratic equations: 6.
 - (a) $x^2 x = 12$
- (b) $6x^2 5 = 7x$ (c) $\frac{1}{8}x^2 = -\frac{x}{4} + 1$
- 2. Find the roots of these equations, correct to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

- (b) $2x^2 x 2 = 0$
- 3. In each of these diagrams find the value of x.

(a)



(c)



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