



ASSESEMENT N°6
JANUARY 16TH 2012

Lycée International
Manosque
38

NAME :

Mark : /20

Class min/mean/max:

Parents signature :

Exercise 1

1. Simplify these expressions .

$$5\sqrt{5} - 6\sqrt{3} - 8\sqrt{3} + \sqrt{5}$$

$$-8\sqrt{2} - 2\sqrt{11} + 3\sqrt{11} - 7\sqrt{2}$$

2. Calculate these products .

$$3\sqrt{5} \times 4\sqrt{5}$$

$$7\sqrt{3}(3-5\sqrt{3})$$

$$(3\sqrt{2}-4)(3\sqrt{2}+4)$$

3. Simplify as much as possible

$$\sqrt{8} + \sqrt{12}$$

$$\sqrt{10^{24}}$$

$$\sqrt{12} + \sqrt{75} - \sqrt{27}$$

$$\sqrt{3^2 + 4^2}$$

$$\sqrt{\frac{1}{36}}$$

$$\frac{18\sqrt{24}}{\sqrt{54}}$$

Exercise 2 SURDS BREVET QUESTIONS

A. Let C be as follows: $C = 3\sqrt{2}(\sqrt{3}+1) + (\sqrt{2}-1)(\sqrt{2}-2)$

Write the number C in the form $a + b\sqrt{6}$ where a and b are positive or negative whole numbers.

B. For the number A as follows : $A = \sqrt{20} - 12\sqrt{5} + 2\sqrt{125}$

Prove that $A = 0$