Rationalising Surds

Mark	/ 8	%

1) Rationalise the denominator [8]

a) $\dfrac{8}{\sqrt{3}}$

b) $\dfrac{-6}{\sqrt{11}}$

c) $\dfrac{16}{\sqrt{48}}$

d) $\dfrac{20}{\sqrt{75}}$

e) $\dfrac{7}{4 - \sqrt{5}}$

f) $\dfrac{-1}{4 - \sqrt{6}}$

g) $\dfrac{-40}{5 - \sqrt{5}}$

h) $\dfrac{-4}{2 - \sqrt{2}}$

Solutions for the assessment Rationalising Surds

1) a) $\dfrac{8\sqrt{3}}{3}$

b) $\dfrac{-6\sqrt{11}}{11}$

c) $\dfrac{4\sqrt{3}}{3}$

d) $\dfrac{4\sqrt{3}}{3}$

e) $\dfrac{28 + 7\sqrt{5}}{11}$

f) $\dfrac{-4 - \sqrt{6}}{10}$

g) $-10 - 2\sqrt{5}$

h) $-4 - 2\sqrt{2}$