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Quiz 5

Algebra & Functions (Maths 201-016)

(2) 1. Simplify

(a) $\sqrt{\frac{4}{9}} =$

(c) $\sqrt{(-16)^2} =$

(b) $\sqrt{\frac{27}{48}} =$

(d) $\sqrt{-16^2} =$

(8) 2. Rationalize the denominator (give your answer simplified):

(a) $\frac{2\sqrt{50}}{5\sqrt{16}}$

(b) $\frac{8}{3 - \sqrt{5}}$

(c) $\frac{3}{\sqrt{12} - \sqrt{3}}$

(d) $\frac{4\sqrt{2} - \sqrt{5}}{\sqrt{6} + \sqrt{5}}$

Answers

1. (a) $\frac{2}{3}$

(b) $\frac{3}{4}$

(c) 16

(d) DNE

2. (a) $\frac{\sqrt{2}}{2}$

(b) $2(3 + \sqrt{5})$

(c) $\sqrt{3}$

(d) $4\sqrt{10} + 8\sqrt{3} - 5 - \sqrt{30}$