

Formative Assessment #34 – Operations on Radicals

AN2.5 - I can perform one or more operations to simplify radical expressions with numerical radicands (maximum index of 2).

Simplify.

a) $3\sqrt{75} - \sqrt{98} + 4\sqrt{50} - \sqrt{27}$

b) $\sqrt{8}(-5\sqrt{3} + 2\sqrt{6})$

c) $(4 - 6\sqrt{3})(4 + 6\sqrt{3})$

d) $(5\sqrt{5} + 4\sqrt{2})(-2\sqrt{5} + 3\sqrt{12})$