

Simplify. Rationalize the denominator if necessary.

a) $\sqrt{32}$

b) $\frac{4 \pm 18\sqrt{24}}{8}$

c) $\frac{5}{\sqrt{3}}$

d) $\frac{3 + \sqrt{5}}{4 - \sqrt{3}}$

e) $\sqrt{12} + 3\sqrt{50} - 2\sqrt{27}$

f) $\frac{4}{\sqrt[3]{32}}$