

Math 20-2
Radical Quiz 2020

Name: _____

1. Express as a radical in simplest form.

a) $\sqrt{32}$

b) $\sqrt[3]{40}$

[4]

c) $6\sqrt{50}$

2. Express as a whole radical.

a) $5\sqrt{3}$

[3]

b) $2\sqrt[3]{6}$

3. Write the expression in simplest form.

a) $5\sqrt{11} - 3\sqrt{5} - 4\sqrt{5}$

b) $5\sqrt{12} + \sqrt{150} + 9\sqrt{6}$

[10]

c) $3\sqrt{18} + 2\sqrt{90} - 4\sqrt{8}$

d) $\sqrt[3]{24} - 3\sqrt{24} - 2\sqrt{54} + \sqrt{48}$

4. Express each product in simplest form.

a) $3\sqrt{2}(2\sqrt{5} + 4\sqrt{3})$

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

[8]

c) $(\sqrt{10} + 3\sqrt{5})^2$