Simplify each.

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

$= 2\sqrt{12}\cdot\sqrt{3} - \sqrt{5}\cdot\sqrt{3}$

$= 2\sqrt{36} - \sqrt{15}$

$= 2\cdot 6 - \sqrt{15}$

$= \boxed{12 - \sqrt{15}}$

$2\sqrt{3}(7\sqrt{2} + 5\sqrt{3})$

$= 2\sqrt{3}\cdot 7\sqrt{2} + 2\sqrt{3}\cdot 5\sqrt{3}$

$= 2\cdot 7\cdot\sqrt{3}\cdot\sqrt{2} + 2\cdot 5\cdot\sqrt{3}\cdot\sqrt{3}$

$= 14\sqrt{6} + 10\cdot 3$

$= \boxed{14\sqrt{6} + 30}$

Simplify.

1. $5\sqrt{18} + 6\sqrt{12} - \sqrt{8} - 2\sqrt{27}$

$5\sqrt{9\cdot 2} + 6\sqrt{4\cdot 3} - \sqrt{4\cdot 2} - 2\sqrt{9\cdot 3}$

$= 5\cdot 3\sqrt{2} + 6\cdot 2\sqrt{3} - 2\sqrt{2} - 2\cdot 3\sqrt{3}$

$= 15\sqrt{2} + 12\sqrt{3} - 2\sqrt{2} - 6\sqrt{3}$

$= \boxed{13\sqrt{2} + 6\sqrt{3}}$

Simplify.

2. $10\sqrt[3]{54} + \sqrt{8} - 2\sqrt[3]{16} + 5\sqrt{32}$

$= 10\sqrt[3]{27\cdot 2} + \sqrt{4\cdot 2} - 2\sqrt[3]{8\cdot 2} + 5\sqrt{16\cdot 2}$

$= 10\cdot 3\sqrt[3]{2} + 2\sqrt{2} - 2\cdot 2\sqrt[3]{2} + 5\cdot 4\sqrt{2}$

$= 30\sqrt[3]{2} + 2\sqrt{2} - 4\sqrt[3]{2} + 20\sqrt{2}$

$= \boxed{26\sqrt[3]{2} + 22\sqrt{2}}$