

Review for Quest

Simplify.

1) $\sqrt{96}$

$4\sqrt{6}$

2) $\sqrt{125}$

$5\sqrt{5}$

3) $\sqrt{150}$

$5\sqrt{6}$

4) $\sqrt{36}$

6

5) $\sqrt{128}$

$8\sqrt{2}$

6) $\sqrt{64}$

8

7) $\sqrt{12}$

$2\sqrt{3}$

8) $\sqrt{24}$

$2\sqrt{6}$

9) $\sqrt{2} + \sqrt{2}$

$2\sqrt{2}$

10) $\sqrt{5} + \sqrt{5}$

$2\sqrt{5}$

11) $2\sqrt{6} - 2\sqrt{6}$

0

12) $-\sqrt{2} - \sqrt{2}$

$-2\sqrt{2}$

$$13) -3\sqrt{3} + 2\sqrt{3}$$

$$-\sqrt{3}$$

$$14) 3\sqrt{20} - 2\sqrt{20}$$

$$2\sqrt{5}$$

$$15) -3\sqrt{2} - 2\sqrt{2} + 2\sqrt{2}$$

$$-3\sqrt{2}$$

$$16) 3\sqrt{5} - 3\sqrt{45} + 3\sqrt{5}$$

$$-3\sqrt{5}$$

$$17) -2\sqrt{54} + 2\sqrt{24} - \sqrt{2} - 3\sqrt{3}$$

$$-2\sqrt{6} - \sqrt{2} - 3\sqrt{3}$$

$$18) 3\sqrt{3} + 3\sqrt{54} - 3\sqrt{12} + 3\sqrt{18}$$

$$-3\sqrt{3} + 9\sqrt{6} + 9\sqrt{2}$$

$$19) 4\sqrt{5} \cdot \sqrt{3}$$

$$4\sqrt{15}$$

$$20) -5\sqrt{10} \cdot \sqrt{12}$$

$$-10\sqrt{30}$$

$$21) -2\sqrt{10} \cdot \sqrt{6}$$

$$-4\sqrt{15}$$

$$22) 5\sqrt{2} \cdot 3\sqrt{3}$$

$$15\sqrt{6}$$

$$23) -\sqrt{15}(-4\sqrt{6} + 5)$$

$$12\sqrt{10} - 5\sqrt{15}$$

$$24) \sqrt{6}(3\sqrt{3} - 2\sqrt{2})$$

$$9\sqrt{2} - 4\sqrt{3}$$

$$25) (5\sqrt{5} + \sqrt{3})(\sqrt{5} - 3\sqrt{3})$$

$$16 - 14\sqrt{15}$$

$$26) (3\sqrt{5} + 1)(-3\sqrt{5} + 3)$$

$$-42 + 6\sqrt{5}$$

$$27) (2 + \sqrt{2})(-3 + \sqrt{2})$$

$$-4 - \sqrt{2}$$

$$28) (\sqrt{5} - 2\sqrt{2})(\sqrt{5} + \sqrt{2})$$

$$1 - \sqrt{10}$$