

BLM 5-4 Section 5.1 Extra Practice

1. a) $3\sqrt{6}$ b) $5\sqrt{14}$ c) $7x\sqrt{2}$ d) $11x^2y\sqrt{3xy}$
2. a) $\sqrt{80}$ b) $\sqrt{6877}$ c) $\sqrt{81x^5}$ d) $\sqrt{175x^2y^3}$
3. a) $-\sqrt{14}, -2\sqrt{3}, 3\sqrt{5}, \sqrt{50}$ b) $\sqrt{2}, \sqrt{18}, \sqrt{32}, 6\sqrt{2}$
c) $-5\sqrt{3}, -\sqrt{60}, -3\sqrt{\frac{5}{2}}, -\sqrt{16}$
d) $\sqrt{12}, \sqrt{20}, 2\sqrt{6}, 4\sqrt{3}$
4. a) $12\sqrt{11}$ b) $5\sqrt{3x} - 5\sqrt{2}$ c) $16 + 8\sqrt{6}$
d) $10\sqrt{5} - 4\sqrt{7y}$
5. a) $21\sqrt{5d}$ b) $6\sqrt{10e}$ c) $13\sqrt{3}$ d) $-\sqrt{7} - 4\sqrt{3}$
6. a) $2\sqrt{x}, x \geq 0$ b) $4x^2\sqrt{x}, x \geq 0$
c) $-\sqrt{x} - 2x\sqrt{x}, x \geq 0$ d) $7x^2\sqrt{y}, x \geq 0$
7. a) $2\sqrt[3]{7}$ b) $2x\sqrt[3]{x^2y}$ c) $-4\sqrt[3]{5}$ d) $-2x$
8. $9\sqrt{2} + 3\sqrt{6}$