

<b>1.</b> $\frac{\sqrt{45}}{\sqrt{9} \cdot \sqrt{5}}$ $\frac{\sqrt{9}}{3\sqrt{5}}$	<b>2.</b> $\frac{1}{4}\sqrt{20}$ $\frac{1}{4} \cdot \sqrt{4} \cdot \sqrt{5}$ $\frac{1}{4} \cdot 2 \cdot \sqrt{5}$ $\frac{\sqrt{5}}{2}$	<b>3.</b> $\frac{\sqrt{80}}{2}$ $\frac{\sqrt{16} \cdot \sqrt{5}}{2}$ $\frac{4\sqrt{5}}{2}$ $2\sqrt{5}$	<b>4.</b> $xy\sqrt{x^4y^3}$ $xy \cdot \sqrt{x^4} \cdot \sqrt{y^2} \cdot \sqrt{y}$ $x^3y^2\sqrt{y}$
<b>5.</b> $\frac{\sqrt{(2y)^2}}{\sqrt{4y^2}}$ $\frac{\sqrt{4y^2}}{2y}$	<b>6.</b> $\frac{\sqrt{24x^2}}{2x}$ $\frac{\sqrt{4} \cdot \sqrt{6} \cdot \sqrt{x^2}}{2x}$ $\frac{2x\sqrt{6}}{2x}$ $\sqrt{6}$	<b>7.</b> $(5\sqrt{2})(\sqrt{8})$ $5\sqrt{16} = 20$	<b>8.</b> $(\sqrt{3xy})(\sqrt{6x^3y^9})$ $\sqrt{18x^4y^{10}}$ $\sqrt{9} \cdot \sqrt{2} \cdot \sqrt{x^4} \cdot \sqrt{y^{10}}$ $3x^2y^5\sqrt{2}$
<b>9.</b> $\left(\frac{\sqrt{3}}{\sqrt{5}}\right)(\sqrt{6}) = \sqrt{\frac{18}{5}}$ $\frac{\sqrt{18}}{\sqrt{5}} \cdot \frac{\sqrt{5}}{\sqrt{5}}$ $\frac{\sqrt{90}}{5}$ $\frac{\sqrt{9} \cdot \sqrt{10}}{5}$ $\frac{3\sqrt{10}}{5}$	<b>10.</b> $\sqrt{3} - 2\sqrt{3} = -\sqrt{3}$  <b>11.</b> $3\sqrt{2x} + 10\sqrt{8x}$ $3\sqrt{2x} + 10\sqrt{4} \cdot \sqrt{2} \cdot \sqrt{x}$ $3\sqrt{2x} + 20\sqrt{2x}$ $23\sqrt{2x}$	<b>12.</b> $3\sqrt{2}(\sqrt{8} - 3\sqrt{6})$ $3\sqrt{16} - 9\sqrt{12}$ $3 \cdot 4 - 9\sqrt{4} \cdot \sqrt{3}$ $12 - 18\sqrt{3}$	<b>13.</b> $4\sqrt{5} + 2\sqrt{45}$ $4\sqrt{5} + 2\sqrt{9} \cdot \sqrt{5}$ $4\sqrt{5} + 6\sqrt{5}$ $10\sqrt{5}$
<b>14.</b> $\frac{4}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$ $\frac{4\sqrt{2}}{2}$ $2\sqrt{2}$	<b>15.</b> $\frac{10\sqrt{5} + 15\sqrt{2}}{20}$ $\frac{2\sqrt{5} + 3\sqrt{2}}{4}$	<b>16.</b> $\frac{3\sqrt{20} - 5\sqrt{45}}{6\sqrt{5}}$ $\frac{3 \cdot \sqrt{4} \cdot \sqrt{5} - 5 \cdot \sqrt{9} \cdot \sqrt{5}}{6\sqrt{5}}$ $\frac{6\sqrt{5} - 15\sqrt{5}}{6\sqrt{5}}$ $\frac{-9\sqrt{5}}{6\sqrt{5}} = -\frac{3}{2}$	<b>17.</b> $\frac{4}{1-3\sqrt{5}} \cdot \frac{1+3\sqrt{5}}{1+3\sqrt{5}}$ $\frac{4+12\sqrt{5}}{1-9 \cdot 5}$ $\frac{4+12\sqrt{5}}{-44}$ $\frac{1+3\sqrt{5}}{-11}$
<b>18.</b> $\frac{3+\sqrt{2}}{3-\sqrt{2}} \cdot \frac{3+\sqrt{2}}{3+\sqrt{2}} = \frac{9+3\sqrt{2}+3\sqrt{2}+2}{9-2} \rightarrow \frac{11+6\sqrt{2}}{7}$			