$\qquad$ due $\qquad$

1) $\sqrt{75}$
2) $\sqrt{16}$
3) $\sqrt{36}$
4) $\sqrt{64}$
5) $\sqrt{80}$
6) $\sqrt{30}$
7) $\sqrt{8}$
8) $\sqrt{18}$
9) $\sqrt{32}$
10) $\sqrt{12}$
11) $\sqrt{8}$
12) $\sqrt{108}$
13) $\sqrt{125}$
14) $\sqrt{50}$
15) $\sqrt{175}$
16) $\sqrt{28}$
17) $\sqrt{45}$
18) $\sqrt{72}$
19) $\sqrt{20}$
20) $\sqrt{150}$

## Simplifying Radical Expressions: Adding and Subtracting

$\square$ Add or subtract radicals by simplifying each term and then combining like terms.
a. $2 \sqrt{2}+\sqrt{5}-6 \sqrt{2}=-4 \sqrt{2}+\sqrt{5} \quad$ Subtract like radicals.

b. | $4 \sqrt{3}-\sqrt{27}$ | $=4 \sqrt{3}-\sqrt{9 \cdot 3}$ |  | Perfect square factor |
| ---: | :--- | ---: | :--- |
|  | $=4 \sqrt{3}-\sqrt{9} \cdot \sqrt{3}$ |  | Use product property. |
|  | $=4 \sqrt{3}-3 \sqrt{3}$ |  | Simplify. |
|  | $=\sqrt{3}$ |  | Subtract like radicals. |

1) $3 \sqrt{6}-4 \sqrt{6}$
2) $-3 \sqrt{7}+4 \sqrt{7}$
3) $-11 \sqrt{21}-11 \sqrt{21}$
4) $-9 \sqrt{15}+10 \sqrt{15}$
5) $-10 \sqrt{7}+12 \sqrt{7}$
6) $-3 \sqrt{17}-4 \sqrt{17}$
7) $-10 \sqrt{11}-11 \sqrt{11}$
8) $-2 \sqrt{3}+3 \sqrt{27}$
9) $2 \sqrt{6}-2 \sqrt{24}$
10) $2 \sqrt{6}+3 \sqrt{54}$
11) $-\sqrt{12}+3 \sqrt{3}$
12) $3 \sqrt{3}-\sqrt{27}$
13) $3 \sqrt{8}+3 \sqrt{2}$
14) $-3 \sqrt{6}+3 \sqrt{6}$
