

Answers

1. a) $2\sqrt{5}$

b) $4\sqrt{2}$

c) $5\sqrt{5}$

d) $7\sqrt{3}$

e) $10\sqrt{6}$

f) $-12\sqrt{7}$

g) $\sqrt{2}$

h) $-5\sqrt{3}$

i) $-2\sqrt{2}$

j) Can't be simplified

2. a) $2\sqrt{2}$

b) $3\sqrt{2} - 1.5\sqrt{2} + 2\sqrt{2} = 3.5\sqrt{2}$

c) $9\sqrt{2}$

d) $4\sqrt{7} - \frac{2}{3}\sqrt{3}$

3. a) $-72\sqrt{5}$

b) $\frac{5}{2}\sqrt{15}$

c) -30

d) $320\sqrt{3}$

e) $-60\sqrt{2}$

4. 1. $-30\sqrt{3}$

2. $2\sqrt{2}$

3. $\frac{2}{3}\sqrt{2}$

4. $-2\sqrt{2}$

5. 4.5

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

7. $-54\sqrt{3}$

8. $1080\sqrt{3}$

9. $-\frac{4\sqrt{21}}{3}$

10. $\frac{4}{9}$

11. $-2.4\sqrt{3} + 6.6\sqrt{2}$

12. $-\frac{5\sqrt{6}}{3}$ or $-\frac{5}{3}\sqrt{6}$

13. $\frac{\sqrt{3}}{3}$

14. $\frac{2}{3}\sqrt{5}$

15. $\sqrt{3} + \sqrt{7}$

16. $60\sqrt{30}$