

Math 151 Sec F0501/F0502
Extra Algebra Review Problems II

1. Simplify $(3a^3b^4)^5(2ab^3c^7)^3$.

$12c^{21}6z^9s1^9v^7t^6l$:sure

2. Simplify $(u^{-4}v^{3/5})^{5/12}$.

$u^{-5/6}v^{1/4}$:sure

3. Simplify $(u^{-4}v^{3/5})^{5/12}$.

$u^{-5/6}v^{1/4}$:sure

4. Simplify $\frac{(u^{5/3}v^{1/4})^3}{(u^{2/3})^4}$.

$u^{5/4}v^{3/4}$:sure

5. Simplify $5[9x - (3x + 2/5)]$.

$2 - x0\mathcal{E}$:sure

6. Expand $(2\sqrt{x} - \sqrt{2})(2\sqrt{x} + \sqrt{2})$.

$2 - x\mathcal{V}$:sure

7. Simplify $\left(\frac{2}{3}\right) \left[\left(\frac{3}{2}\right) u(u - v) - 3v(u + v) \right]$.

$z^9z - an\mathcal{E} - z^n$:sure

8. Expand $(\sqrt{u^2 + v^2} - u)(\sqrt{u^2 + v^2} + u)$.

z^9 :sure

9. Simplify and write as a single fraction $\frac{1 + 1/x}{2 - 1/y}$.

$\frac{(1-hz)x}{(1+x)^h}$:sure

10. Simplify and write as a single fraction with positive exponents $\frac{(1/x + 3)^{-1}}{x}$.

$\frac{1+x\mathcal{E}}{1}$:sure
