

Arellano Granados Angel Mariano 09/03/27

## Tarea 3

①  $\sqrt[3]{72 + 18w^2}$

$$2 + 6w^5 \sqrt[3]{9w^2}$$

$$\begin{array}{r} 72 \\ 36 \ 2 \\ 18 \ 4 \\ 9 \ 8 \end{array}$$

②  $\sqrt[5]{z^5}$

$$z^{5/5}$$

③  $\sqrt{9y^{12}}$

$$3y^6$$

④  $(x^{3/10})^2$

$$x^{6/10} = x^{3/5}$$

⑤  $\sqrt[4]{8y^5} \cdot \sqrt[4]{10y^6}$

$$\sqrt[4]{80y^{11}} = 2y^2 \sqrt[4]{5y^3}$$

$$\begin{array}{r} 80 \\ 40 \ 2 \\ 20 \ 4 \\ 10 \ 8 \\ 5 \ 16 \end{array}$$

⑥  $\sqrt{12x^7y^8}$

$$2x^3y^4 \sqrt{3x}$$

$$\begin{array}{r} 12 \\ 6 \ 2 \\ 3 \ 4 \end{array}$$



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⑦  $\sqrt[6]{7} \cdot \sqrt[1]{2}$

$$\frac{12 + 7}{\sqrt{14}} = \frac{19}{14}$$

⑧  $(a^{-5} \cdot c^{3/2})^{1/4}$

$$a^{-5/4} \cdot c^{3/8}$$

$$\frac{c^{3/8}}{a^{5/4}}$$

⑨  $\sqrt[4]{8}$

$$\sqrt[4]{8}$$

⑩  $\sqrt{20x^8}$

$$2x^4\sqrt{5}$$

$$\begin{array}{r} 20 \\ 10 \ 2 \\ 5 \ 4 \end{array}$$