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[2] 1. Express as a mixed radical in simplest form:

$$\sqrt{147x^5y^4z^3}$$

$$\sqrt[3]{216a^2b^4}$$

[2] 2. Express as an entire radical:

$$5x^3\sqrt[4]{2xy^2}$$

$$11ab^2\sqrt{3ab}$$

[2] 3. State when the given radical is defined. Show work and/or explain your answer.

$$\sqrt{5x^3}$$

$$\sqrt[3]{216a^2b^4}$$

$$\frac{3}{\sqrt{5}} + \frac{\sqrt{8}}{\sqrt{12}}$$

[4] 6. Simplify and rationalize the denominator:

$\sqrt[4]{-2x^3}$	$\sqrt{26x}$
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[2] 5. State all restrictions on the variables. If restrictions do not exist, explain why.

$\sqrt[3]{b^4}$	$\sqrt{-7z^3}$
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[2] 4. State when the given radical is undefined. Show work and/or explain your answer.