Chapter R Review Find someone who can... **Name:** _____

Define and give an example of *Commutative.* order is switched Ex. $A+B \rightarrow B+A$ Name:	Define and give an example of *Associative.* groupings change Ex. $(a+b)+c = a+(b+c)$ Name:	Define and give an example of *conjugate.* $\sqrt{2x}+1$ and $\sqrt{2x}-1$ opposite operation Ex. $\frac{x}{\sqrt{2x}+1} \cdot \frac{\sqrt{2x}-1}{\sqrt{2x}-1}$ Name:	Define and give an example of *rational.* fractional Ex. $\frac{4}{8}, \frac{y^2}{y^4}, 0.25, 0.\overline{33}, 0$ Name:
Find the subset of *natural numbers.* $\left\{-2.3, \frac{-1}{2}, 0, 1, \pi, \sqrt{3}, \frac{12}{3}\right\}$ $\{1, \frac{12}{3}=4\}$ Name:	Simplify x^0 3° 0° ϕ 1 Name:	Simplify $64^{\frac{-1}{3}}$ $\sqrt[3]{64^{-1}}$ $\frac{1}{\sqrt[3]{64}} = \frac{1}{4}$ 4 4 4 Name:	Simplify $\sqrt[2]{36x^8y^3}$ 6 6 $6x^4y\sqrt{y}$ Name:
Simplify $\frac{x^3x^{-2}y}{y^{4-3}}$ $\frac{x}{y^3}$ Name:	Rationalize the denominator. $\frac{3}{\sqrt[3]{25x}} \cdot \frac{\sqrt[3]{5x^2}}{\sqrt[3]{5x^2}}$ 5 5 $\frac{3\sqrt[3]{5x^2}}{\sqrt[3]{125x^3}} = \frac{3\sqrt[3]{5x^2}}{5x}$ 5 25 5 5 Name:	Rationalize the denominator $\frac{4}{3+\sqrt{2}} \cdot \frac{3-\sqrt{2}}{3-\sqrt{2}}$ $\frac{12-4\sqrt{2}}{9-3\sqrt{2}+3\sqrt{2}-\sqrt{4}}$ $\frac{12-4\sqrt{2}}{7}$ Name:	