SEMESTER 2 REVIEW

$$a^{2}-b^{2}=(a+b)(a-b) \qquad 3 \text{ terms} \qquad 4 \text{ terms} \qquad 6 \text{ Touping} \qquad 2^{2}-b^{2}=(a+b)(a-b) \qquad X^{2}-6x-16 \qquad X^{2}-6x^{2}+4x-24 \qquad X^{2}-43= \text{ not factorable} \qquad (x+2)(x-8) \qquad (x^{3}-6x^{2}+4x-24) \qquad (x+2)(x-8) \qquad (x^{2}-6x^{2}+4x-24) \qquad (x^{3}-6x^{2}+4x-24) \qquad (x^{3}-6x^{2}+4x-2$$

$$\frac{Rules of Exponents}{x^{m} \cdot x^{n} = x^{m+n}} \frac{x^{m}}{(x^{m})^{n}} = x^{m-n} \frac{x^{m}}{x^{n}} = x^{m-n}$$

$$\frac{x^{n} \cdot x^{n} = x^{m+n}}{x^{n}} \frac{x^{n}}{(x^{n})^{n}} = x^{m-n} \frac{x^{m}}{x^{n}} = x^{m-n}$$

$$\frac{x^{n} \cdot x^{n} = x^{m}}{(x^{n})^{n}} = x^{n} \frac{x^{n}}{x^{n}} = x^{n} \frac{x^{n}}{x^{n}} = x^{n}$$

$$\frac{x^{n} \cdot x^{n} = x^{m+n}}{(x^{n})^{n}} \frac{x^{n}}{x^{n}} = x^{n} \frac{x^{n}}{x^{n}} = x^{n}$$

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$$\frac{x^{n} \cdot x^{n}}{x^{$$

Like 18
$$\sqrt{x+4} - \sqrt{x-4} = 2$$
) Isolate not both
$$x+4 = (2+\sqrt{x-4})(2+\sqrt{x-4})$$

$$x+4 = 4+2\sqrt{x-4}+2\sqrt{x-4}+x-4$$

$$4 = 4\sqrt{x-4}+x$$

$$5 = x$$

$$\frac{19}{x-2} = \frac{3x+4}{x-2} \qquad 9(x) = x^{2}-1$$

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$$\frac{19}{x-2} = \frac{3}{x-2} = \frac{3}{1} = 13$$

$$\frac{19}{x-2} = \frac{3}{1} = 13$$

$$\frac{1}{x-2} = \frac{3}{1}$$

