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$$\frac{3x^7}{x+8} \cdot \frac{x^2+12x+32}{12x^2}$$

(PSD)

MULTIPLYING RATIONAL EXPRESSIONS

$$\frac{3x^7}{x+8} \cdot \frac{(x+4)(x+8)}{12x^2}$$

(4)

1. FACTOR EVERYTHING

$$\frac{x^7}{x+8} \cdot \frac{(x+4)(x+8)}{4x^2}$$

2. CANCEL IF POSSIBLE (ON CANCELING, ONE MUST BE ON TOP AND ONE ON BOTTOM)

$$\frac{x^7}{1} \cdot \frac{x+4}{4x^2}$$

$$\frac{x^5}{1} \cdot \frac{x+4}{4}$$

3. PUT TOPS TOGETHER
PUT BOTTOMS TOGETHER

$$\frac{x^5(x+4)}{4}$$

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$$\frac{5x^2+8x-2}{x^2-6x-27} \cdot \frac{x^2+4x-32}{5x^2-27x+28}$$

(KEYS) (PSD) (VEYH) (VEYH)

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$$\frac{2y^2-13y+15}{4y^2-8y+3} \cdot \frac{6y^2+y-2}{5-y}$$

(KEYS) (KEYS) (WRONG ORDER)

$$\frac{(5x-7)(x+3)}{(x-9)(x+3)} \cdot \frac{(x+8)(x-4)}{(5x-7)(x-4)}$$

$$\frac{(2y-3)(y-5)}{(2y-1)(y-3)} \cdot \frac{(2y-1)(3y+2)}{-y+5}$$

(GCF)

$$\frac{x+8}{x-9}$$

$$\frac{y-5}{1} \cdot \frac{3y+2}{-1(y-3)} = \frac{3y+2}{-1} = -3y-2$$

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$$\frac{p^2-9p+14}{p^2-12p+35} \cdot (p-5)$$

(PSD) (PSD)

$$\frac{(p-2)(p-7)}{(p-5)(p-7)} \cdot \frac{p-5}{1}$$

$$\frac{p-2}{1} = p-2$$