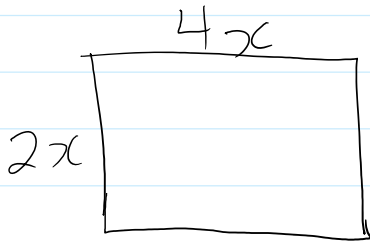


Multiplying and Dividing Monomials

Thursday, October 17, 2019 8:58 AM

Monomials: $3, x, 4x, 7x^2, 2x^2y^3, \dots$



$$A = l \cdot w \quad (\text{length} \times \text{width})$$

$$A = 4x \cdot 2x$$

$$A = 4 \cdot 2 \cdot x \cdot x$$

$$A = 8x^2$$

$$(-3x)(4x^2) = (-3 \cdot 4)(x \cdot x^2) \\ = -12x^3$$

$$(-4)(-2x) = 8x$$

Try: ① $(-7x)(4x) = -28x^2$ ② $(-8x^2)(-4x) = 32x^3$

$$16x^2 \div 4x \rightarrow \frac{16x^2}{4x} = 4x$$

$$\frac{-27x^2}{9x^2} = -3$$

$$\frac{12x^3}{15x^2} = \frac{4x}{5} \quad \text{or} \quad \frac{4}{5}x$$

Try ① $\frac{20x^2}{-4x} = -5x$

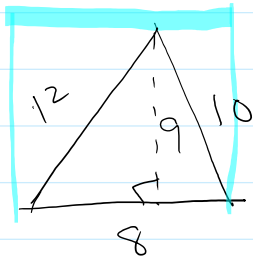
② $\frac{24x^3}{16x^5} = \frac{3}{2x^2}$

$$\begin{aligned} & \underbrace{-4x} \\ & = -5x \end{aligned}$$

$$\frac{3}{2x^2}$$

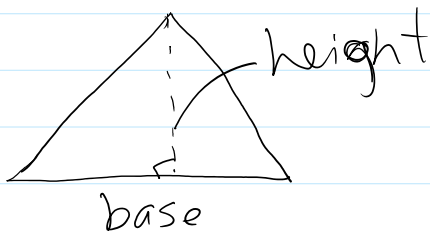
$$\frac{(-3x)(-4x^2)}{(-6x)} = \frac{12x^3}{-6x} = -2x^2$$

Triangle Area = $\frac{\text{base} \cdot \text{height}}{2}$

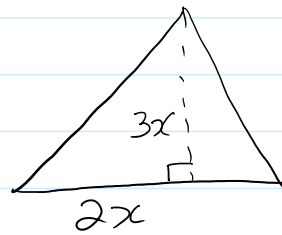


$$A = \frac{bh}{2} \quad \text{or} \quad A = \frac{1}{2}bh$$

$$A = \frac{8 \times 9}{2} = \frac{72}{2} = 36$$



Find the area of



$$A = \frac{bh}{2}$$

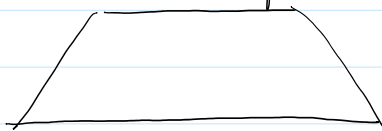
$$A = \frac{2x \cdot 3x}{2}$$

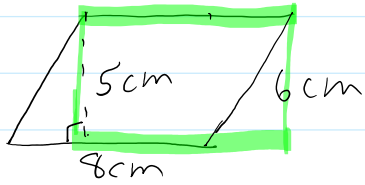
$$= \frac{6x^2}{2} = 3x^2$$

Parallelogram



trapezoid





$$\begin{aligned} \text{Area} &= \text{base} \cdot \text{height} \\ &= 8 \times 5 \\ &= 40 \text{ cm}^2 \end{aligned}$$

