

**Half sheet on the stool**

$$(-2m^5)^2 \cdot m^3$$

$$4m^{10} \cdot m^3$$

$$\boxed{4m^{13}}$$

$$(2x+3)(x^2+3x-6)$$

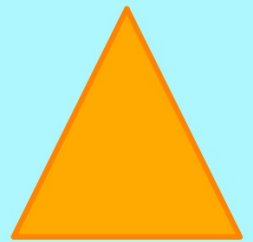
$$\cancel{2x^3} + \cancel{6x^2} - \cancel{12x} + \cancel{3x^2} + \cancel{9x} - \cancel{18}$$

$$\boxed{2x^3 + 9x^2 - 3x - 18}$$

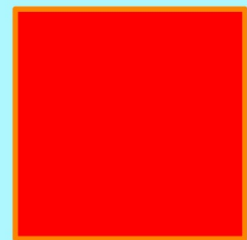
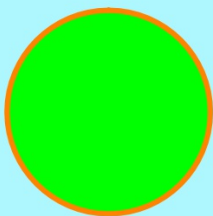
$$(x+3)^2 = \boxed{x^2 + 6x + 9}$$

$$(x+3)(x+3)$$

	$x + 3$	
$x$	$x^2$	$3x$
$+ 3$	$3x$	$9$

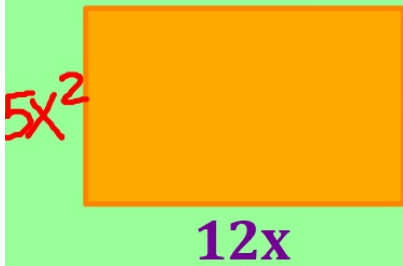


# **Geometric Applications for Polynomials**



Perimeter:

$$12x + 5x^2 + 12x + 5x^2$$



$$P = 10x^2 + 24x$$

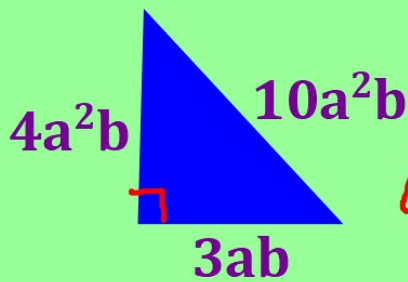
Area:

$$12x(5x^2)$$

$$A = 60x^3$$

Perimeter:

$$4a^2b + 10a^2b + 3ab$$



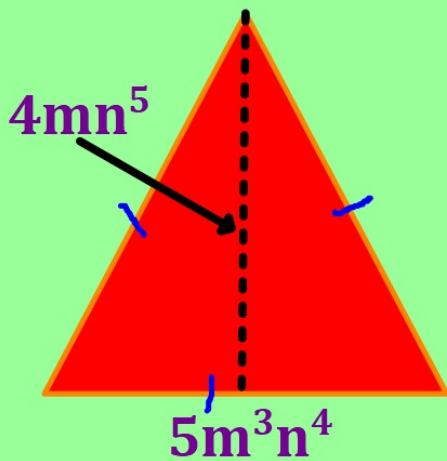
$$P = 14a^2b + 3ab$$

Area:

$$\frac{bh}{2}$$

$$\frac{3ab(4a^2b)}{2}$$

$$\frac{12a^3b^2}{2} = A = 6a^3b^2$$



**Perimeter:**

$$5m^3n^4 + 5m^3n^4 + 5m^3n^4$$

$$P = 15m^3n^4$$

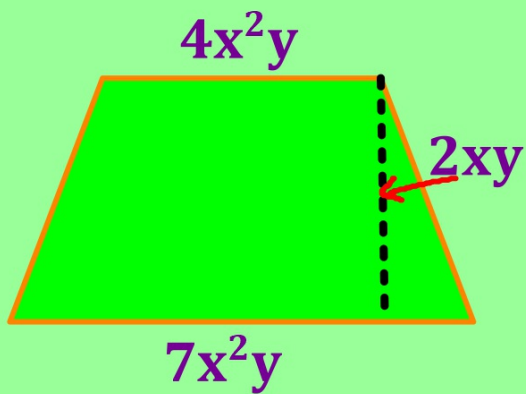
OR  $3(5m^3n^4)$

$$P = 15m^3n^4$$

**Area:**

$$\frac{5m^3n^4(4mn^5)}{2} = \frac{20m^4n^9}{2}$$

$$A = 10m^4n^9$$

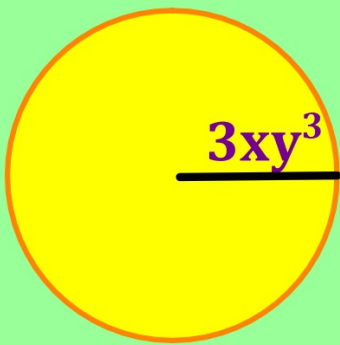


$$A = \frac{h(b_1 + b_2)}{2}$$

$$\frac{2xy(4x^2y + 7x^2y)}{2}$$

$$\frac{2xy(11x^2y)}{2} = \frac{22x^3y^2}{2}$$

$$A = 11x^3y^2$$



Area:

$$A = \pi r^2$$

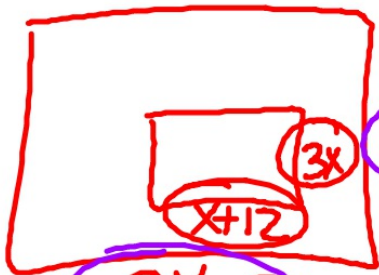
$$\pi (3xy^3)^2$$

$$\pi (9x^2y^6)$$

$$9x^2y^6\pi$$

WS  
505

$$(2x+7)(9x-2)$$



$$2x+7$$

$$18x^2 - 4x + 63x - 14$$

$$18x^2 + 59x - 14$$

$$3x(x+12)$$

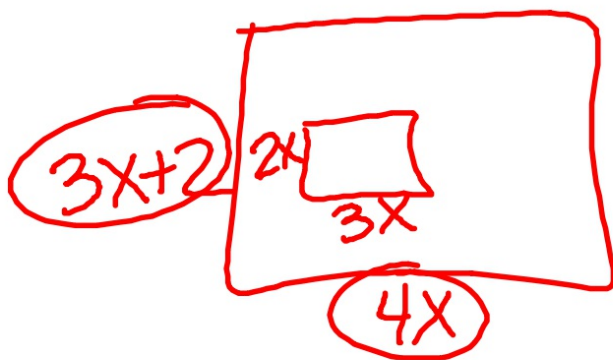
$$3x^2 + 36x$$

$$(18x^2 + 59x - 14) -$$

$$(3x^2 + 36x)$$

$$15x^2 + 59x - 50$$





$$4X(3X+2)$$

$$12X^2 + 8X$$

$$2X(3X)$$

$$6X^2$$

$$(12X^2 + 8X) - 6X^2$$

$$6X^2 + 8X$$