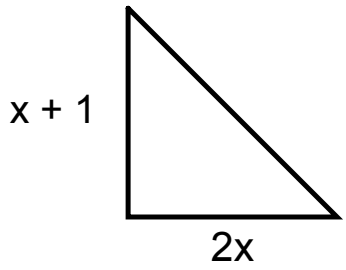
Before you leave...

Simplify the following expressions:

1. $3c(3c + 2) - 5c(2c - 1)$

2. $\dfrac{(36h^3 - 24h^2 + 12h)}{-8h}$

3. Find a simplified expression for the **area** of the polygon:



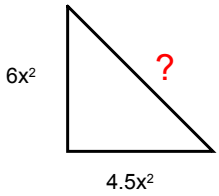
	Incorrect	Correct	Incomplete/ NA
1.	13	11	2
2.	3	10	12
3.	0	3	21

$(-2)^2 =$ 4 $-2^2 =$ -4 $3c(c - 5) = 3c^2-15c$

Is $a^3b^2c^4 = b^2a^3c^4$? Yes! $4a^2b - x - 4ba^2 =$ x

$\frac{2ac^4 - 4ac^2 - 2a}{2a} =$ $c^4 - c^2 - 1$ $(x- y) - (-y + x) =$ 0

6.a) ? = $7.5x^2$ b) ? = $2y^2 - y + 1$



Perimeter = $18x^2$

7.a) $-6a^2 - 9a + 21$ b) $21a^3b^3c^6 - 28a^4b^3c^4$ c) $-9a + 6$

d) $10x + 1$ e) $3g - 4$ f) $6a^2b - 2ab^2$ g) $-4p^2 + 6p - 4$

h) $48a^4b^5 - 36a^5b^4 + 60a^3b^3$ i) $3a^2 + b + 1$

8.a) $2x^2 - x$ b) $\frac{2}{b}$ c) $1 - 2a^2 + 4a$ d) $\frac{a^2}{3} - \frac{a}{4} + \frac{1}{2} - \frac{1}{4a} + \frac{2}{3a^2}$

e) $-3x + 0.5 + \frac{6}{x}$ f) $3a^2b^4 - \frac{4a^4b^2}{3}$

9. a) $8x^3y^3$ cm^3 b) $(42a^2 + 21a)$ dm c) $3a^4 - 5a^2$

10. $r^2h = 18x^3$ pi $- 45x^2$ pi

11. $2.33a^3b^2$ or $\frac{7a^3b^2}{3}$

b) $7(3a)(2a+1)$

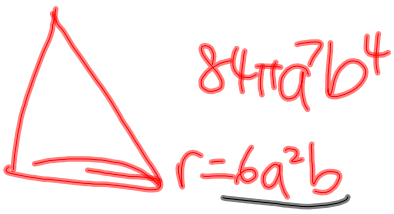
$21a(2a+1)$

$= 42a^2 + 21a$

c) $\frac{A_b \times h}{3}$

$\frac{3a \times 3a \times (3a^2 - 5)}{3}$

11.



$84\pi a^7b^4$

$r = 6a^2b$

$\frac{\pi r^2 h}{3} = 84\pi a^7b^4$

$\frac{\pi(6a^2b)^2 h}{3} = 84\pi a^7b^4$

a a
a a

$\frac{\pi(36a^4b^2)h}{3} = (84\pi a^7b^4)3$

p. 53

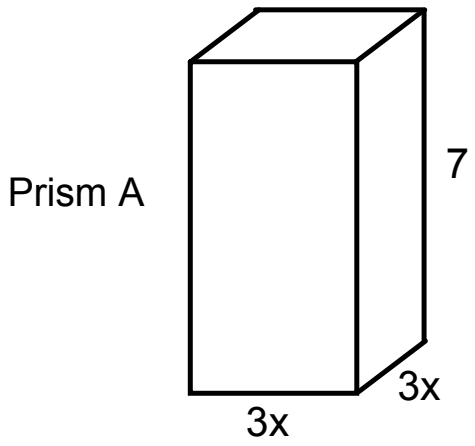
10. Consider square prism A. What is the volume of prism B:

b) Given that its height is (2x - 3) times that of prism A, and the bases of both prisms are congruent?

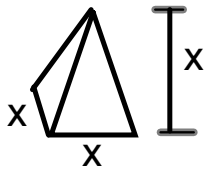
c) Given that it is similar to prism A and the measure of one edge of one base is 5.2 times that of prism A?

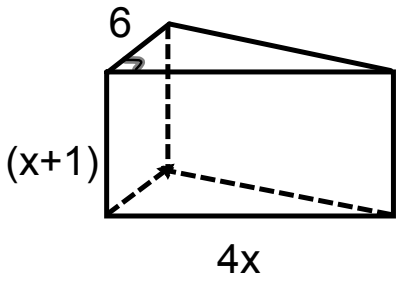
d) Given that its volume is 6 times smaller than that of prism A?

e) Given that its volume is 3x smaller than that of prism A?



16. Determine an algebraic expression for the number of times the volume of the square pyramid is contained in that of the triangular prism.





Homework: Textbook p.60-67 #3, 6, 13, 36.

1.