

## Introduction

Simplify the following completely.

1.  $(3x)(-2y)(4z) = -24xyz$

2.  $(5a)(5a) = 25a^2$

3.  $(-4ab)(7b) = -28ab^2$

4.  $(6m^2)(3m) = 18m^3$

5.  $12ab^2 \times 2a^2b = 24a^3b^3$

6.  $\frac{14ab}{7a} = 2b$

7.  $\frac{24xyz}{-8xz} = -3y$

8.  $(3m^2 - 15m^3) \div -5m = 3m^2 - 15m^3$

9.  $\frac{-16xy^2}{4xy} = -4y$

10.  $30p^3q^2 \div -3pq^2 = -10p^2$

Simplify the following completely

1.  $2(3x - 4) = 6x - 8$

2.  $a(a + 3) = a^2 + 3a$

3.  $-4(a^2 + 3a - 2) = -4a^2 - 12a + 8$

4.  $3x(2x - x^2 + 4) = 6x^2 - 3x^3 + 12x$

5.  $(-4x)(3x - 5) = -12x^2 + 20x - 4x$

6.  $(18x^2 - 6x) \div 3x = 6x - 2$

7.  $(8a^3 - 12a^2 + 4a) \div (-4a)$

$-2a^2 + 3a - 1$

$$8. \frac{20mn - 5mp + 15m}{5m}$$

$$4n - p + 3$$

$$9. (15x^2 - 9x + 12) \div ( ) = -5x^2 + 3x - 4$$

$$-3$$

$$10. 2(x-3) + 5(x+1)$$

$$2x - 6 + 5x + 5$$

$$7x - 1$$

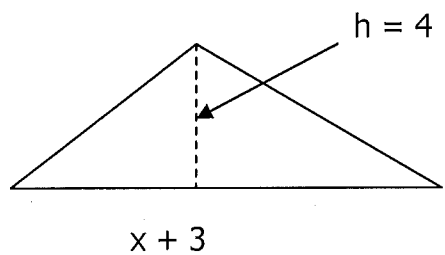
$$11. 4(2x+3) - 2(x-5)$$

$$8x + 12 - 2x + 10$$

$$6x + 22$$

Find the area of the triangle below

$$12. A = \frac{bh}{2}$$



$$A = \frac{(x+3)(4)}{2}$$

$$= (x+3)(2)$$

$$= 2x + 6$$