

Ex. 1 Simplify:

a) $-13 + 28$

b) $8 + 4 \times 6$

c) $4(3+6)-3(2+7)$

d) $7a - 4b - a - 2b$

Ex. 2 Solve the following equations.

a) $x + 2 = 7$

b) $-4x = 28$

c) $2x + 5 = 13$

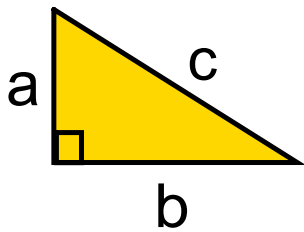
d) $3(x - 2) = 12$

e) $(n - 9) + 6 = 4(n - 2) - 2(n - 6)$

f) $\frac{x - 2}{2} = \frac{x}{3}$

g) $\frac{x + 1}{4} - \frac{x - 3}{2} = 1$

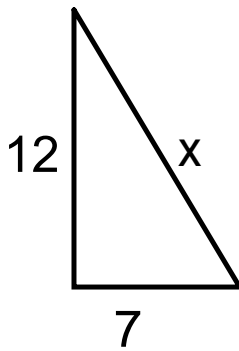
Pythagorean Theorem



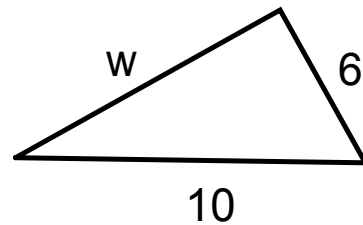
$$a^2 + b^2 = c^2$$

Ex. 3 Find the missing value.

a)



b)

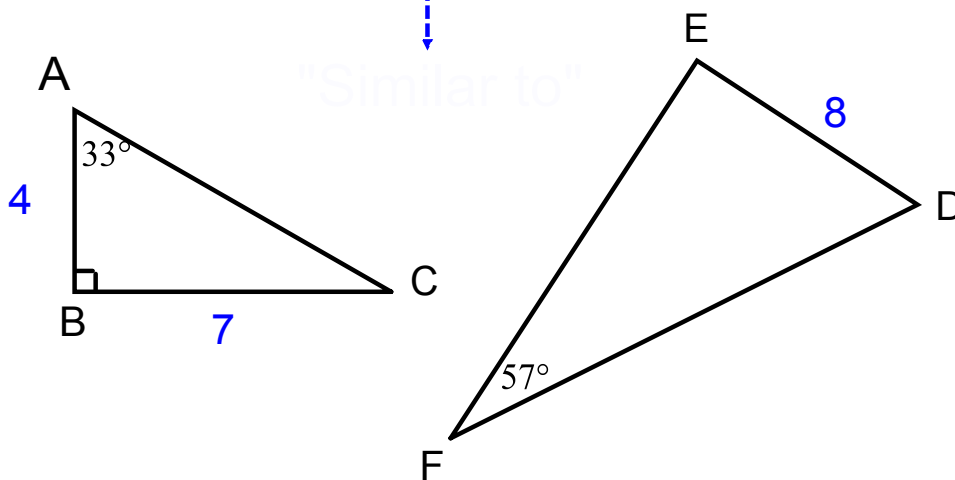


Similar Triangles

Ex. 4 Solve for x and y .

$$x : 16 : 8 = 3 : y : 2$$

Ex. 5 Given $\triangle ABC \sim \triangle DEF$, determine:



a) $\angle C =$

b) $\angle D =$

c) $\angle E =$

d) $EF =$

e) $AC =$

Ex. 6 A toy manufacturer sells a 0.9m tall model of the CN tower. The model casts a shadow 0.2m long. At the same time of day, the actual CN Tower casts a shadow 123.3m long. Find the height of the CN Tower to the nearest metre.