

1. Solve the following for the given unknown “x”:

(a)  $2x + 5 = -9$

(b)  $4x - 8 = x + 16$

(c)  $a = \frac{m}{x}$

2. Determine/describe the value of “a” for the following:

(i)  $a = 3m - 5n$  when “m” is 6 and “n” is -2.

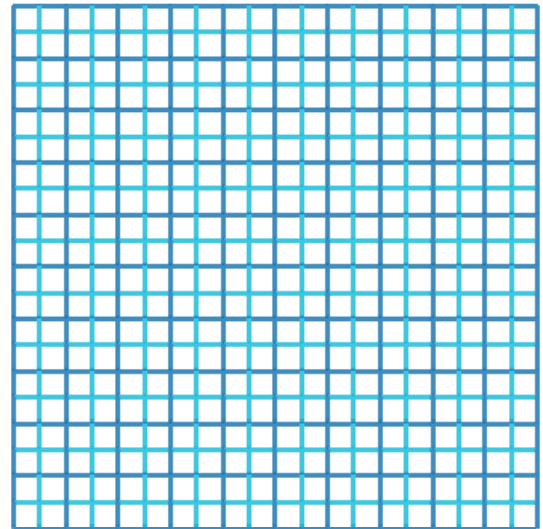
(ii)  $a = \frac{5}{g} + 7$  when “g” is a very, very large, positive number

(iii)  $a = -3 + \frac{2}{m}$  when “m” is very, very small, positive number

(iv)  $\frac{1}{a} = B - 33$  when “B” is a very large positive number

3. For the two given points, A(-2,6) and B(8,-9)

- (i) What is the slope of the line?
- (ii) What is the y intercept of the line?
- (iii) What is the x intercept of the line?
- (iv) What is the equation of the line?



4. Find the missing sides and angles for the following triangles using SOHCAHTOA and Pythagorean Theorem.

