

A ① The sum of a number and 9
can be written as:

② Evaluate: $3x^2 + 5y + 7$
if $x = -2$ and $y = 3$.

③ Solve for x : $x + 5 = 17$

B ④ Solve for x : $4x + 9 = 21$

⑤ Solve for x : $5x + 7 = 3x - 9$

⑥ Solve for x : $|x| - 4 = 8$

C ⑦ Solve for x : $mx - n = y$

⑧ Solve for x : $\frac{r}{x} = \frac{s}{t}$

⑨ Solve for y : $\frac{3}{7} = \frac{y}{8}$

D ⑩ Simplify: $8xy^2 + 3xy + 4xy^2 - 2xy$

⑪ Simplify: $6x^2(4x^3y)$

⑫ $x^{-5} =$

E (13) Simplify: $(5x + 2z) + (3x - 4z)$

(14) Simplify: $(4x - 7z) - (3x - 4z)$

(15) Factor $ab + ac$

F (16) Factor $x^2 - 5x - 14$

(17) Solve $x^2 + 7x = -10$

(18) Solve for x : $2x + 3 \leq 11$

G (19) Solve for x : $3x + 4 \geq 5x - 8$

(20) Solve for x : $|x - 3| < 6$

(21) Solve for x .

$$2|x| + 4 \geq 8$$

H (22) Solve this system for x and y .

$$8x + 2y = 7$$

$$3x - 4y = 5$$

(23) Graph $x + y = 6$

I (24) What is the slope and the y -intercept of $y = 6x + 2$?

(25) What is the equation of the line passing through the points $(3, 6)$ and $(2, -3)$?