

Expression and Equations Level 1-Part 3

1. What is the product of $(x - 5)(x - 5)$?
2. What is the product of $(x + 4)(x - 2)$?
3. What is the product of $(x + 5)(x + 3)$?
4. What is the product of $(x - 5)(x + 6)$?
5. What is the product of $3(x + 3)(x + 4)$?
6. What is the product of $2(x + 2)(x - 2)$?
7. What is the product of $2(x + 3)(x + 5)$?
8. What is the product of $3(x + 4)(x + 4)$?
9. $f(x) = \left(\frac{6}{6}\right)x + c$ If $f(-12) = -1$ then what is the value of $f(6)$?
10. $f(x) = \left(\frac{7}{3}\right)x + c$ If $f(-9) = -25$ then what is the value of $f(0)$?
11. $f(x) = \left(\frac{6}{2}\right)x + c$ If $f(-8) = -17$ then what is the value of $f(-2)$?
12. $f(x) = \left(\frac{4}{6}\right)x + c$ If $f(-12) = 4$ then what is the value of $f(0)$?

13. $f(x) = 4x + 9$ then what is $f(5x)$?
14. $f(x) = 3x + 3$ then what is $f(3x)$?
15. $f(x) = -2x + 3$ then what is $f(2x)$?
16. $\begin{aligned}x + y &= -5 \\ -x - 4y &= 14\end{aligned}$
17. $\begin{aligned}x + y &= 6 \\ 3x - 3y &= -12\end{aligned}$
18. $\begin{aligned}x + y &= 5 \\ 5x - 2y &= 39\end{aligned}$
19. $\begin{aligned}x + y &= -1 \\ -2x - 3y &= 7\end{aligned}$
20. $\begin{aligned}x + y &= -7 \\ x - 4y &= 18\end{aligned}$
21. $\sqrt{2x^2 + 56} - 8 = 0$
22. $\sqrt{2x^2 - 1} - 7 = 0$
23. $\sqrt{2x^2 - 2} - 4 = 0$
24. $\begin{aligned}\frac{x}{y} &= 6 \\ x + y &= 42\end{aligned}$

25.

$$\frac{x}{y} = 2$$

$$x + y = -6$$

Answers

- 1 $x^2 - 10x + 25$
- 2 $x^2 + 2x - 8$
- 3 $x^2 + 8x + 15$
- 4 $x^2 + x - 30$
- 5 $3x^2 + 21x + 36$
- 6 $2x^2 - 8$
- 7 $2x^2 + 16x + 30$
- 8 $3x^2 + 24x + 48$
- 9 17
- 10 -4
- 11 1
- 12 12
- 13 $20x + 9$
- 14 $9x + 3$
- 15 $-4x + 3$
- 16 $x = -2$ $y = -3$
- 17 $x = 1$ $y = 5$
- 18 $x = 7$ $y = -2$
- 19 $x = 4$ $y = -5$
- 20 $x = -2$ $y = -5$
- 21 $x = 2$
- 22 $x = 5$
- 23 $x = 3$
- 24 $x = 36$ $y = 6$
- 25 $x = -4$ $y = -2$