

Maths

Substitute a negative term into a formula

Miss Davies



Substitute a negative term into a formula

1. When $a = -5$, $b = 3$ and $c = -2$ find the value for the expressions.

- a) $5a$
- b) $5a + 10c$
- c) $2(a + c)$
- d) $c(5 + a)$
- e) $9(b - c)$
- f) $ab - c$
- g) $a^2 + b$
- h) $-2(a^2 + b)$

2. Use the formula $y = 4f - 7$ to complete the questions.

- a) Find the value of y when $f = -2$
- b) Find the value of r when $y = -17$

3. Use the formula $X = -3(a^2 + b)$ to complete the questions.

- a) Find the value of X when $a = -4$ and $b = 8$
- b) Find the value of a when $X = -60$, and $b = -5$



Answers



Substitute a negative term into a formula

1. When $a = -5$, $b = 3$ and $c = -2$ find the value for the expressions.

- a) $5a$ -25
- b) $5a + 10c$ -45
- c) $2(a + c)$ -14
- d) $c(5 + a)$ 0
- e) $9(b - c)$ 45
- f) $ab - c$ -13
- g) $a^2 + b$ 28
- h) $-2(a^2 + b)$ -56

2. Use the formula $y = 4f - 7$ to complete the questions.

a) Find the value of y when $f = -2$

$$y = -15$$

b) Find the value of r when $y = -17$

$$f = -2.5$$

3. Use the formula $X = -3(a^2 + b)$ to complete the questions.

a) Find the value of X when $a = -4$ and $b = 8$

$$X = -72$$

b) Find the value of a when $X = -60$, and $b = -5$

$$a = 5 \text{ or } -5$$

