

Evaluation d'Expressions (A)

Utilisez la valeur donnée pour évaluer l'expression.

$$1. \frac{z - 3 + (-7)}{c - z}$$

$(c = -5, z = 2)$

$$5. -1 + (-2) - (7 - (-6)) \cdot v$$

$(v = -1)$

$$2. (a - 4)^3 - (v - a)$$

$(a = 7, v = 9)$

$$6. \frac{x - (-5) - (-2)}{5b}$$

$(x = -1, b = 5)$

$$3. c - (c - (a + (-6))) + c$$

$(a = 3, c = -7)$

$$7. \frac{-10 - \frac{6+a}{a}}{a}$$

$(a = 3)$

$$4. \frac{7}{c + (-4) \cdot 1^4}$$

$(c = -3)$

$$8. 4 \cdot \frac{-4}{-2} + 2 + x$$

$(x = 7)$

Evaluation d'Expressions (A) Solutions

Utilisez la valeur donnée pour évaluer l'expression.

$$\begin{aligned} 1. & \frac{z - 3 + (-7)}{c - z} \\ & (c = -5, z = 2) \\ & = \frac{8}{7} \end{aligned}$$

$$\begin{aligned} 5. & -1 + (-2) - (7 - (-6)) \cdot v \\ & (v = -1) \\ & = 10 \end{aligned}$$

$$\begin{aligned} 2. & (a - 4)^3 - (v - a) \\ & (a = 7, v = 9) \\ & = 25 \end{aligned}$$

$$\begin{aligned} 6. & \frac{x - (-5) - (-2)}{5b} \\ & (x = -1, b = 5) \\ & = \frac{6}{25} \end{aligned}$$

$$\begin{aligned} 3. & c - (c - (a + (-6))) + c \\ & (a = 3, c = -7) \\ & = 4 \end{aligned}$$

$$\begin{aligned} 7. & \frac{-10 - \frac{6+a}{a}}{a} \\ & (a = 3) \\ & = -\frac{13}{3} \end{aligned}$$

$$\begin{aligned} 4. & \frac{7}{c + (-4) \cdot 14} \\ & (c = -3) \\ & = -1 \end{aligned}$$

$$\begin{aligned} 8. & 4 \cdot \frac{-4}{-2} + 2 + x \\ & (x = 7) \\ & = 17 \end{aligned}$$

Evaluation d'Expressions (B)

Utilisez la valeur donnée pour évaluer l'expression.

$$1. \frac{9a}{a} \cdot \frac{2}{z}$$

$(a = 10, z = 9)$

$$5. \frac{-2}{1} + (-3) + -7z$$

$(z = -10)$

$$2. 10 \left(\frac{-7}{c} - (-8 + c) \right)$$

$(c = 3)$

$$6. \frac{-3b}{\frac{-6}{b} - b}$$

$(b = -6)$

$$3. b - (x + 2)(b + u)$$

$(x = 9, b = 9, u = 7)$

$$7. \frac{x}{\left(\frac{u}{7+u^3} \right)}$$

$(x = -2, u = -3)$

$$4. \frac{-3 - (-9 + (-9) + b)}{b}$$

$(b = -4)$

$$8. u + \frac{c^4}{7u}$$

$(c = 1, u = -3)$

Evaluation d'Expressions (B) Solutions

Utilisez la valeur donnée pour évaluer l'expression.

$$\begin{aligned} 1. \quad & \frac{9a}{a} \cdot \frac{2}{z} \\ & (a = 10, z = 9) \\ & = 2 \end{aligned}$$

$$\begin{aligned} 5. \quad & \frac{-2}{1} + (-3) + -7z \\ & (z = -10) \\ & = 65 \end{aligned}$$

$$\begin{aligned} 2. \quad & 10 \left(\frac{-7}{c} - (-8 + c) \right) \\ & (c = 3) \\ & = \frac{80}{3} \end{aligned}$$

$$\begin{aligned} 6. \quad & \frac{-3b}{\frac{-6}{b} - b} \\ & (b = -6) \\ & = \frac{18}{7} \end{aligned}$$

$$\begin{aligned} 3. \quad & b - (x + 2)(b + u) \\ & (x = 9, b = 9, u = 7) \\ & = -32 \end{aligned}$$

$$\begin{aligned} 7. \quad & \frac{x}{\left(\frac{u}{7+u^3}\right)} \\ & (x = -2, u = -3) \\ & = -\frac{40}{3} \end{aligned}$$

$$\begin{aligned} 4. \quad & \frac{-3 - (-9 + (-9) + b)}{b} \\ & (b = -4) \\ & = -\frac{19}{4} \end{aligned}$$

$$\begin{aligned} 8. \quad & u + \frac{c^4}{7u} \\ & (c = 1, u = -3) \\ & = -\frac{64}{21} \end{aligned}$$

Evaluation d'Expressions (C)

Utilisez la valeur donnée pour évaluer l'expression.

1. $\left((-10(c+3))^2\right)^3$
($c = -3$)

5. $10 + (-10) + c(v+9)$
($c = 6, v = 6$)

2. $\frac{z-4}{b-5-u}$
($u = -9, z = 4, b = -5$)

6. $u(v+u)(u+v)$
($u = -2, v = 4$)

3. $8 - y\left(-10 + \frac{y}{y}\right)$
($y = 4$)

7. $\frac{c(c - (-7))}{(c = 7)} \cdot (-4)$

4. $9 + (-1) - (a - (-1)) + a$
($a = 4$)

8. $b + (-1) - (-6 + b) \cdot v$
($b = -8, v = 6$)

Evaluation d'Expressions (C) Solutions

Utilisez la valeur donnée pour évaluer l'expression.

$$\begin{aligned} 1. & \left((-10(c+3))^2 \right)^3 \\ & (c = -3) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 5. & 10 + (-10) + c(v+9) \\ & (c = 6, v = 6) \\ & = 90 \end{aligned}$$

$$\begin{aligned} 2. & \frac{z-4}{b-5-u} \\ & (u = -9, z = 4, b = -5) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 6. & u(v+u)(u+v) \\ & (u = -2, v = 4) \\ & = -8 \end{aligned}$$

$$\begin{aligned} 3. & 8 - y \left(-10 + \frac{y}{y} \right) \\ & (y = 4) \\ & = 44 \end{aligned}$$

$$\begin{aligned} 7. & \frac{c(c - (-7))}{c} \cdot (-4) \\ & (c = 7) \\ & = -56 \end{aligned}$$

$$\begin{aligned} 4. & 9 + (-1) - (a - (-1)) + a \\ & (a = 4) \\ & = 7 \end{aligned}$$

$$\begin{aligned} 8. & b + (-1) - (-6 + b) \cdot v \\ & (b = -8, v = 6) \\ & = 75 \end{aligned}$$

Evaluation d'Expressions (D)

Utilisez la valeur donnée pour évaluer l'expression.

1. $7 - (-7) - (3 - u)^2$
($u = -2$)

5. $\frac{\left(\frac{u}{6}\right)}{-10 - (u - 8)}$
($u = -1$)

2. $(-2 - u + (-1)) \cdot \frac{z}{-10}$
($z = -7, u = 8$)

6. $-6 - (-10) - 9b - 9$
($b = 2$)

3. $-1u - (u + u^2)$
($u = -3$)

7. $y - u - \frac{u - 4}{y}$
($y = -7, u = -5$)

4. $1 - (3 - (-7 - (-6))) + x$
($x = -2$)

8. $4 - b + b - \frac{b}{6}$
($b = 3$)

Evaluation d'Expressions (D) Solutions

Utilisez la valeur donnée pour évaluer l'expression.

$$\begin{aligned} 1. & 7 - (-7) - (3 - u)^2 \\ & (u = -2) \\ & = -11 \end{aligned}$$

$$\begin{aligned} 5. & \frac{\left(\frac{u}{6}\right)}{-10 - (u - 8)} \\ & (u = -1) \\ & = \frac{1}{6} \end{aligned}$$

$$\begin{aligned} 2. & (-2 - u + (-1)) \cdot \frac{z}{-10} \\ & (z = -7, u = 8) \\ & = -\frac{77}{10} \end{aligned}$$

$$\begin{aligned} 6. & -6 - (-10) - 9b - 9 \\ & (b = 2) \\ & = -23 \end{aligned}$$

$$\begin{aligned} 3. & -1u - (u + u^2) \\ & (u = -3) \\ & = -3 \end{aligned}$$

$$\begin{aligned} 7. & y - u - \frac{u - 4}{y} \\ & (y = -7, u = -5) \\ & = -\frac{23}{7} \end{aligned}$$

$$\begin{aligned} 4. & 1 - (3 - (-7 - (-6)) + x) \\ & (x = -2) \\ & = -1 \end{aligned}$$

$$\begin{aligned} 8. & 4 - b + b - \frac{b}{6} \\ & (b = 3) \\ & = \frac{7}{2} \end{aligned}$$

Evaluation d'Expressions (E)

Utilisez la valeur donnée pour évaluer l'expression.

$$1. \frac{(c - x + x)^2}{c}$$

$(x = 6, c = -1)$

$$5. \frac{a + u}{\frac{a}{a} \cdot a}$$

$(a = 3, u = 8)$

$$2. (b^2 + (-9))^3 \cdot v$$

$(b = -3, v = 5)$

$$6. c + y - (y + 5 \cdot 4)$$

$(y = -5, c = 6)$

$$3. (y + (-2) \cdot (-2))^2 - y$$

$(y = -5)$

$$7. \frac{ac}{y - c} + y$$

$(a = -10, y = -7, c = 9)$

$$4. \frac{\left(\frac{z}{\left(\frac{-6}{7}\right)}\right)}{xz}$$

$(x = -7, z = 5)$

$$8. \frac{-1 - \frac{10}{y} \cdot y}{-10}$$

$(y = 1)$

Evaluation d'Expressions (E) Solutions

Utilisez la valeur donnée pour évaluer l'expression.

$$1. \frac{(c - x + x)^2}{c}$$

$(x = 6, c = -1)$
 $= -1$

$$5. \frac{a + u}{\frac{a}{a} \cdot a}$$

$(a = 3, u = 8)$
 $= \frac{11}{3}$

$$2. (b^2 + (-9))^3 \cdot v$$

$(b = -3, v = 5)$
 $= 0$

$$6. c + y - (y + 5 \cdot 4)$$

$(y = -5, c = 6)$
 $= -14$

$$3. (y + (-2) \cdot (-2))^2 - y$$

$(y = -5)$
 $= 6$

$$7. \frac{ac}{y - c} + y$$

$(a = -10, y = -7, c = 9)$
 $= -\frac{11}{8}$

$$4. \frac{\left(\frac{z}{\left(\frac{-6}{7}\right)}\right)}{xz}$$

$(x = -7, z = 5)$
 $= \frac{1}{6}$

$$8. \frac{-1 - \frac{10}{y} \cdot y}{-10}$$

$(y = 1)$
 $= \frac{11}{10}$

Evaluation d'Expressions (F)

Utilisez la valeur donnée pour évaluer l'expression.

$$1. \frac{\frac{-10}{c} + v}{c} - v$$

$(c = 1, v = -7)$

$$5. \left(4 - \frac{y}{c}\right)^2 \cdot y$$

$(y = -2, c = -2)$

$$2. (c - c) \cdot 5v \cdot c$$

$(c = 7, v = 1)$

$$6. \frac{4 + a - v}{(-3)^3}$$

$(a = -5, v = -2)$

$$3. \frac{-8 + x - a - (-3)}{x}$$

$(a = -9, x = 10)$

$$7. \frac{u^2}{\frac{u}{b} - u}$$

$(b = -1, u = -9)$

$$4. \frac{\frac{x}{\left(\frac{4}{-4}\right)} + \frac{x}{v}}{v}$$

$(x = 5, v = 7)$

$$8. \frac{-10 + z}{\frac{\frac{z}{z}}{z} + z}$$

$(z = -10)$

Evaluation d'Expressions (F) Solutions

Utilisez la valeur donnée pour évaluer l'expression.

$$\begin{aligned} 1. \quad & \frac{-10}{c} + v \\ & (c = 1, v = -7) \\ & = -10 \end{aligned}$$

$$\begin{aligned} 5. \quad & \left(4 - \frac{y}{c}\right)^2 \cdot y \\ & (y = -2, c = -2) \\ & = -18 \end{aligned}$$

$$\begin{aligned} 2. \quad & (c - c) \cdot 5v \cdot c \\ & (c = 7, v = 1) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 6. \quad & \frac{4 + a - v}{(-3)^3} \\ & (a = -5, v = -2) \\ & = -\frac{1}{27} \end{aligned}$$

$$\begin{aligned} 3. \quad & \frac{-8 + x - a - (-3)}{x} \\ & (a = -9, x = 10) \\ & = \frac{7}{5} \end{aligned}$$

$$\begin{aligned} 7. \quad & \frac{u^2}{\frac{u}{b} - u} \\ & (b = -1, u = -9) \\ & = \frac{9}{2} \end{aligned}$$

$$\begin{aligned} 4. \quad & \frac{x}{\left(\frac{4}{-4}\right)} + \frac{x}{v} \\ & (x = 5, v = 7) \\ & = -\frac{30}{7} \end{aligned}$$

$$\begin{aligned} 8. \quad & \frac{-10 + z}{\frac{z}{z} + z} \\ & (z = -10) \\ & = \frac{20}{9} \end{aligned}$$

Evaluation d'Expressions (G)

Utilisez la valeur donnée pour évaluer l'expression.

$$1. \frac{x^4}{-8} - x^4 \\ (x = 2)$$

$$5. u - 8 \cdot \frac{-8}{10 - 7} \\ (u = -7)$$

$$2. -3 + (-9) \cdot z \cdot z + (-3) \\ (z = 2)$$

$$6. -1z(z - (-2 + 4)) \\ (z = -1)$$

$$3. (x - a) \cdot (-7) - \frac{x}{x} \\ (a = -10, x = -8)$$

$$7. \left(\frac{x}{z} - (-10) - x \right)^2 \\ (x = 8, z = 6)$$

$$4. (-7 + 5) \cdot c + c^4 \\ (c = 1)$$

$$8. \frac{\frac{-9}{8} - (3 - y)}{6} \\ (y = -3)$$

Evaluation d'Expressions (G) Solutions

Utilisez la valeur donnée pour évaluer l'expression.

$$\begin{aligned} 1. \quad & \frac{x^4}{-8} - x^4 \\ & (x = 2) \\ & = -18 \end{aligned}$$

$$\begin{aligned} 5. \quad & u - 8 \cdot \frac{-8}{10 - 7} \\ & (u = -7) \\ & = \frac{43}{3} \end{aligned}$$

$$\begin{aligned} 2. \quad & -3 + (-9) \cdot z \cdot z + (-3) \\ & (z = 2) \\ & = -42 \end{aligned}$$

$$\begin{aligned} 6. \quad & -1z(z - (-2 + 4)) \\ & (z = -1) \\ & = -3 \end{aligned}$$

$$\begin{aligned} 3. \quad & (x - a) \cdot (-7) - \frac{x}{x} \\ & (a = -10, x = -8) \\ & = -15 \end{aligned}$$

$$\begin{aligned} 7. \quad & \left(\frac{x}{z} - (-10) - x \right)^2 \\ & (x = 8, z = 6) \\ & = \frac{100}{9} \end{aligned}$$

$$\begin{aligned} 4. \quad & (-7 + 5) \cdot c + c^4 \\ & (c = 1) \\ & = -1 \end{aligned}$$

$$\begin{aligned} 8. \quad & \frac{\frac{-9}{8} - (3 - y)}{6} \\ & (y = -3) \\ & = -\frac{19}{16} \end{aligned}$$

Evaluation d'Expressions (H)

Utilisez la valeur donnée pour évaluer l'expression.

1. $u + \frac{x}{a^3} \cdot x$
($a = -3, x = -6, u = -6$)

5. $-9 - \left(\frac{a}{4} + (-4)\right)^4$
($a = 8$)

2. $\frac{3 \cdot \frac{u}{b}}{5b}$
($b = -4, u = -4$)

6. $u + (-10) - (-6 - (u - b))$
($b = 9, u = -1$)

3. $x + v(v - yv)$
($y = -1, x = 7, v = 2$)

7. $(-7) \cdot x \cdot \frac{\left(\frac{x}{5}\right)}{-3}$
($x = -6$)

4. $a - (-10) - (7^2 + a)$
($a = 5$)

8. $-2 - \frac{b}{b} + \frac{b}{-10}$
($b = -2$)

Evaluation d'Expressions (H) Solutions

Utilisez la valeur donnée pour évaluer l'expression.

$$\begin{aligned} 1. \quad & u + \frac{x}{a^3} \cdot x \\ & (a = -3, x = -6, u = -6) \\ & = -\frac{22}{3} \end{aligned}$$

$$\begin{aligned} 5. \quad & -9 - \left(\frac{a}{4} + (-4) \right)^4 \\ & (a = 8) \\ & = -25 \end{aligned}$$

$$\begin{aligned} 2. \quad & \frac{3 \cdot \frac{u}{b}}{5b} \\ & (b = -4, u = -4) \\ & = -\frac{3}{20} \end{aligned}$$

$$\begin{aligned} 6. \quad & u + (-10) - (-6 - (u - b)) \\ & (b = 9, u = -1) \\ & = -15 \end{aligned}$$

$$\begin{aligned} 3. \quad & x + v(v - yv) \\ & (y = -1, x = 7, v = 2) \\ & = 36 \end{aligned}$$

$$\begin{aligned} 7. \quad & (-7) \cdot x \cdot \frac{\left(\frac{x}{5}\right)}{-3} \\ & (x = -6) \\ & = \frac{84}{5} \end{aligned}$$

$$\begin{aligned} 4. \quad & a - (-10) - (7^2 + a) \\ & (a = 5) \\ & = -39 \end{aligned}$$

$$\begin{aligned} 8. \quad & -2 - \frac{b}{b} + \frac{b}{-10} \\ & (b = -2) \\ & = -\frac{14}{5} \end{aligned}$$

Evaluation d'Expressions (I)

Utilisez la valeur donnée pour évaluer l'expression.

1. $(-6) \cdot (-2) + (b - a) \cdot b$
($a = 8, b = -6$)

5. $z + 4 + z + v - z$
($z = 10, v = -7$)

2. $3 + y + y - (-7) + y$
($y = -1$)

6. $b \left(\frac{-8}{c} + (-10) \right) - (-2)$
($c = -6, b = -3$)

3. $\frac{-8}{c \cdot \frac{c}{2 \cdot (-4)}}$
($c = 1$)

7. $b - (b + c) + 5b$
($c = 6, b = -10$)

4. $\frac{v + y - (-2)}{2v}$
($y = -6, v = -3$)

8. $\frac{\left(\frac{6}{z}\right)}{\frac{10}{2} \cdot (-1)}$
($z = 7$)

Evaluation d'Expressions (I) Solutions

Utilisez la valeur donnée pour évaluer l'expression.

$$\begin{aligned} 1. & (-6) \cdot (-2) + (b - a) \cdot b \\ & (a = 8, b = -6) \\ & = 96 \end{aligned}$$

$$\begin{aligned} 5. & z + 4 + z + v - z \\ & (z = 10, v = -7) \\ & = 7 \end{aligned}$$

$$\begin{aligned} 2. & 3 + y + y - (-7) + y \\ & (y = -1) \\ & = 7 \end{aligned}$$

$$\begin{aligned} 6. & b \left(\frac{-8}{c} + (-10) \right) - (-2) \\ & (c = -6, b = -3) \\ & = 28 \end{aligned}$$

$$\begin{aligned} 3. & \frac{-8}{c \cdot \frac{c}{2 \cdot (-4)}} \\ & (c = 1) \\ & = 64 \end{aligned}$$

$$\begin{aligned} 7. & b - (b + c) + 5b \\ & (c = 6, b = -10) \\ & = -56 \end{aligned}$$

$$\begin{aligned} 4. & \frac{v + y - (-2)}{2v} \\ & (y = -6, v = -3) \\ & = \frac{7}{6} \end{aligned}$$

$$\begin{aligned} 8. & \frac{\left(\frac{6}{z}\right)}{\frac{10}{2} \cdot (-1)} \\ & (z = 7) \\ & = -\frac{6}{35} \end{aligned}$$

Evaluation d'Expressions (J)

Utilisez la valeur donnée pour évaluer l'expression.

$$1. -6 + v + 4 + \frac{5}{-6}$$

$(v = 3)$

$$5. b(a(-1 - b) + b)$$

$(a = -5, b = -1)$

$$2. \frac{3}{c} \cdot 4 + 1^4$$

$(c = 9)$

$$6. c - (-3) + 8 + 4 + (-6)$$

$(c = 1)$

$$3. \frac{v - (-7) + (-10) + v}{-4}$$

$(v = -1)$

$$7. \frac{1 - v}{(v + b) \cdot (-5)}$$

$(b = 9, v = -3)$

$$4. \frac{-1}{3 + c + 2 + 8}$$

$(c = 4)$

$$8. (-2) \cdot \frac{z}{\left(\frac{z}{1}\right)} \cdot z$$

$(z = -10)$

Evaluation d'Expressions (J) Solutions

Utilisez la valeur donnée pour évaluer l'expression.

$$\begin{aligned} 1. & -6 + v + 4 + \frac{5}{-6} \\ & (v = 3) \\ & = \frac{1}{6} \end{aligned}$$

$$\begin{aligned} 5. & b(a(-1 - b) + b) \\ & (a = -5, b = -1) \\ & = 1 \end{aligned}$$

$$\begin{aligned} 2. & \frac{3}{c} \cdot 4 + 1^4 \\ & (c = 9) \\ & = \frac{7}{3} \end{aligned}$$

$$\begin{aligned} 6. & c - (-3) + 8 + 4 + (-6) \\ & (c = 1) \\ & = 10 \end{aligned}$$

$$\begin{aligned} 3. & \frac{v - (-7) + (-10) + v}{-4} \\ & (v = -1) \\ & = \frac{5}{4} \end{aligned}$$

$$\begin{aligned} 7. & \frac{1 - v}{(v + b) \cdot (-5)} \\ & (b = 9, v = -3) \\ & = -\frac{2}{15} \end{aligned}$$

$$\begin{aligned} 4. & \frac{-1}{3 + c + 2 + 8} \\ & (c = 4) \\ & = -\frac{1}{17} \end{aligned}$$

$$\begin{aligned} 8. & (-2) \cdot \frac{z}{\left(\frac{z}{1}\right)} \cdot z \\ & (z = -10) \\ & = 20 \end{aligned}$$