

Name: _____

Date: _____ Score: _____

① Evaluate the following expressions for $x = 3$

a) $\frac{3(x + 3)}{6}$

b) $\frac{x^3}{9}$

c) $\frac{2x + 8x}{22}$

② Evaluate the following expressions for $a = -4$ and $b = -6$

a) $\frac{ab}{-6}$

b) $\frac{a(b + 3)}{2}$

c) $\frac{a^2 - b^2}{4}$

③ Evaluate the following expressions for $x = -1$ and $b = 4$

a) $\frac{x^2}{b} + 1$

b) $\frac{-3x - b}{b}$

c) $\frac{3(x + b^2)}{2}$

④ Evaluate the following expressions for $x = -3$ and $y = 2$

a) $\frac{9x + 3}{6y}$

b) $\frac{-y(x^2 + 1)}{x}$

c) $\frac{42}{x + y}$

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Answers

1

a) $\frac{3(x+3)}{6}$

3

b) $\frac{x^3}{9}$

3

c) $\frac{2x+8x}{22}$

$\frac{15}{12}$

2

a) $\frac{ab}{-6}$

-4

b) $\frac{a(b+3)}{2}$

6

c) $\frac{a^2-b^2}{4}$

5

3

a) $\frac{x^2}{b} + 1$

$\frac{5}{4}$

b) $\frac{-3x-b}{b}$

$-\frac{1}{4}$

c) $\frac{3(x+b^2)}{2}$

$\frac{45}{2}$

4

a) $\frac{9x+3}{6y}$

-2

b) $\frac{-y(x^2+1)}{x}$

20

c) $\frac{42}{x+y}$

-42