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1) Evaluate the following expressions:

a)  $x + 4x$  for  $x = 2$

b)  $3z + 5$  for  $z = 4$

c)  $32y + 3/13$  for  $y = 1$

2) Find the value of the following expressions:

a)  $\frac{7u+2}{5} + 5$  for  $u = 10$

b)  $\frac{5y+8}{7} + 2$  for  $y = 5$

c)  $\frac{p+23}{4} + \frac{5}{11}$  for  $p = 3$

3) Evaluate the given expressions:

a)  $\frac{21+13x}{32x} + 1$  for  $x = 6$

b)  $\frac{21x+7}{8+3x} + 5$  for  $x = 7$

c)  $\frac{14+13x}{17x+13} + \frac{2}{3}$  for  $x = 2$

4) Evaluate  $(a^2 - b^2 - c)(a^2 + b^2 + c)$  for  $a = 4$ ,  $b = 6$ ,  $c = 1$

5) Simplify the given expressions  $49x^2 + 28x + 4$  and find its value for  $x = 2$ .

6) Evaluate the given expression  $14x + 13y$  for  $x = 2$ ,  $y = 3$

7) Evaluate the following polynomial  $x^2 + 16y^2 + 17y^0 + 3x^3$  for  $x = 3$ ,  $y = 1$

8) Evaluate the given the expression  $\frac{4x^3+x+2}{x+13}$  for  $x = 4$

9) Simplify the following algebraic expressions  $(12y)^2 + (2y)^3 + 2$  for  $y = 3$

10) Evaluate the following expression  $9xy + 12x^2y^4 + 7x^2y^3$  for  $x = 4$ ,  $y = 1$

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- Barbara Cabrera

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# ANSWERS



1)	1(a) 8 1(b) 15 1(c) $\frac{419}{13}$
2)	2(a) $\frac{44}{5}$ 2(b) $\frac{47}{7}$ 2(c) $\frac{153}{44}$
3)	3(a) $\frac{291}{192}$ 3(b) $\frac{270}{29}$ 3(c) $\frac{214}{141}$
4)	-1133
5)	256
6)	67
7)	191
8)	$\frac{53}{114}$
9)	1514
10)	340

## FUN FACT

1. A mathematical equation is an expression containing two mathematical objects connected by an equals sign ( $=$ ).
2. An algebraic equation is an equation in which both sides are polynomials.
3. A differential equation is a functional equation involving derivatives of the unknown functions

