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Solving Equations Worksheets

- 1) Evaluate the following expressions:
 - a) $2xy + 3x^2y + 5xy^3$ for $x = 3, y = 2$
 - b) $p^2q + 3pq + p^2q^2$ for $p = 2, q = 3$

- 2) Find the value of the following expressions:
 - a) $0.2x + 0.3xy + 0.5y$ for $x = 1, y = 3$
 - b) $2x + 3xy + 4y^2$ for $x = 0.2, y = 0.7$

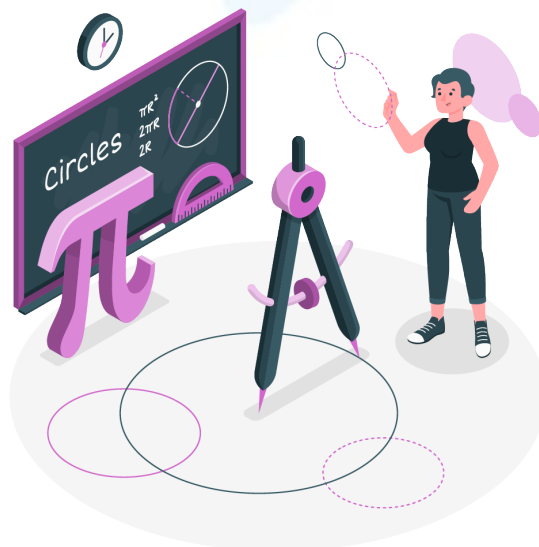
- 3) Simplify the expression:
 - a) $pqr(3pq + p + 5q) + 4rq$ for $p = 2, q = 3, r = 4$
 - b) $9a(4ac + 7c + bc) + ab^2c$ for $a = 3, b = 4, c = 7$

- 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 polynomials:
 - a) $2x^2 + 3x + 3y^3 + 2$ for $x = 1, y = 2$
 - b) $4m^4 + 7n^4$ for $m = 2, n = 4$



8) Evaluate the following:

a) $\frac{3x^3+4}{5x}$ for $x = 3$

b) $\frac{3u^3+2u+4}{5u+3}$ for $u = 2$

9) Simplify the following algebraic expressions:

a) $(12y)^2 + 2$ for $y = 3$

b) $(4z)^2 + (7k)^3$ for $z = 2, k = 4$

10) Evaluate the following expressions:

a) $2xy + 3x^2y + 5xy^3$ for $x = 3, y = 2$

b) $p^2q + 3pq + p^2q^2$ for $p = 2, q = 3$

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- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1)	1(a) 186 1(b) 66
2)	2(a) 2.6 2(b) 2.78
3)	3(a) 888 3(b) 4638
4)	-1133
5)	256
6)	67
7)	7(a) 31 7(b) 1856
8)	8(a) 193 8(b) 3213
9)	9(a) 1298 9(b) 22016
10)	10(a) 186 10(b) 66

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

