POLYNOMIALS WORKSHEET

Factorize the below equations for questions 1-3:

1) 5x - 35

2) $x^2 + 22x + 121$

3) $16x^2 - 40x + 25$

4) Find the sum of: $12y^2$ + 17y - 4 and $9y^2$ - 13y + 3

5) Find the sum of: $(-3m^2 + m) + (4m^2 + 6m)$

6) Simplify the expression: $(2t^2 3s^3)^4$

7) If a rope is $(3z^3 - 4z^2 - 2)$ units long, and there are $24z$ such ropes, find the length of all the ropes when measured together.

8) A car is moving with a speed of $(2y^3 - 3y)$ miles/hour. Find the distance covered after $(y^2 + y)$ hours.

9) Base of a parallelogram is given by 2p+1. If its area is $8p^2$+4p, find its height.

10)   Divide $6n^3$-$5n^2$-54n+45 by n+3

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1)	5(x-7)
2)	$(x+11)^2$
3)	$(4x-5)^2$
4)	$21y^2 + 4y - 1$
5)	$m^2 + 7m$
6)	$432t^8 s^{12}$
7)	$72z^4 - 96z^3 - 48z$
8)	$2y^5 + 2y^4 - 3y^3 - 3y^2$
9)	4p
10)	(n-3)(6n-5)

FUN FACT

- An algebraic expression without any variable is called a constant polynomial
- Any term only containing the variable has a coefficient 1
- Coefficient of a variable in a polynomial can be positive, negative or even zero.