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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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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- 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) | $5(x-7)$ |
| 2) | $(x+11)^2$ |
| 3) | $(4x-5)^2$ |
| 4) | $21y^2 + 4y - 1$ |
| 5) | $m^2 + 7m$ |
| 6) | $432t^8s^{12}$ |
| 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.

