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Factoring Polynomials Worksheet

Questions

Factorize the below equations for questions 1-6:

1. $7x - 21$

2. $x^2 + 12x + 36$

3. $9x^2 - 24x + 16$

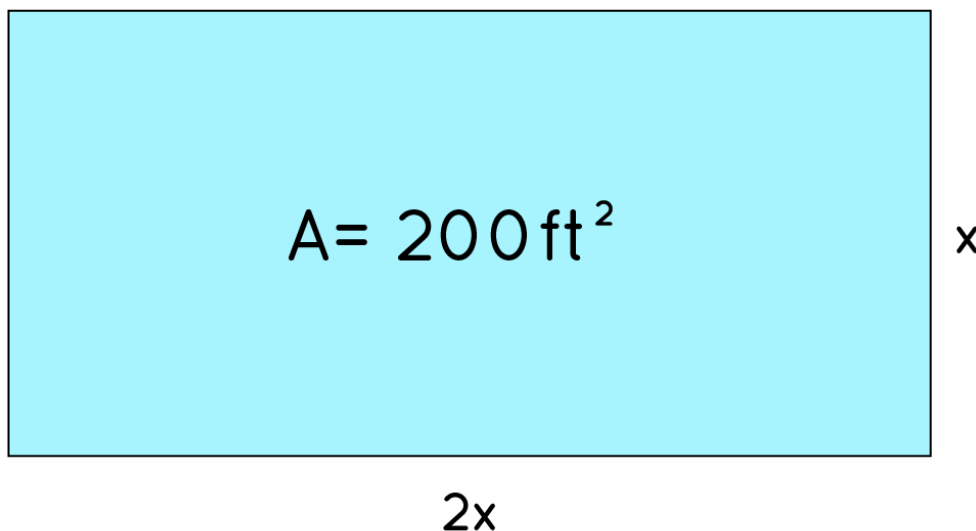
4. $9x^2 - 4$

5. $3xy + 9y + 5x + 15$

6. $16x^3 + 336x^2 + 588x + 49$

7. Fill in the missing values in the following factorization:
 $4xyz + 18x^2y = _xy(2_ + 9x)$

8. If the area of a rectangular plot is denoted by $3x^2 - 7x + 4$, find the length and breadth of the plot if $x = 3$.



9. The distance covered by a biker is denoted by $9x^2 + 9x + 2$ and the time is denoted by $3x + 1$. Find the speed at $x = 7$.

10. Find the value of m if $5x^2 + mx - 2$ has 1 as one of its roots.



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in an interesting way,
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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. | $7(x-3)$ |
| 2. | $(x+6)^2$ |
| 3. | $(3x-4)^2$ |
| 4. | $(3x+2)(3x-2)$ |
| 5. | $(3y+5)(x+3)$ |
| 6. | $(4x+7)^3$ |
| 7. | 2 and $2z$ |
| 8. | 13 and 2 |
| 9. | 23 |
| 10. | -3 |