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## Factoring Polynomials Worksheet

### Questions

Factorize the equations for questions 1-6:

1.  $2x - 4$

2.  $x^2 - 14x + 49$

3.  $4x^2 - 12x + 9$

4.  $16x^2 - 25$

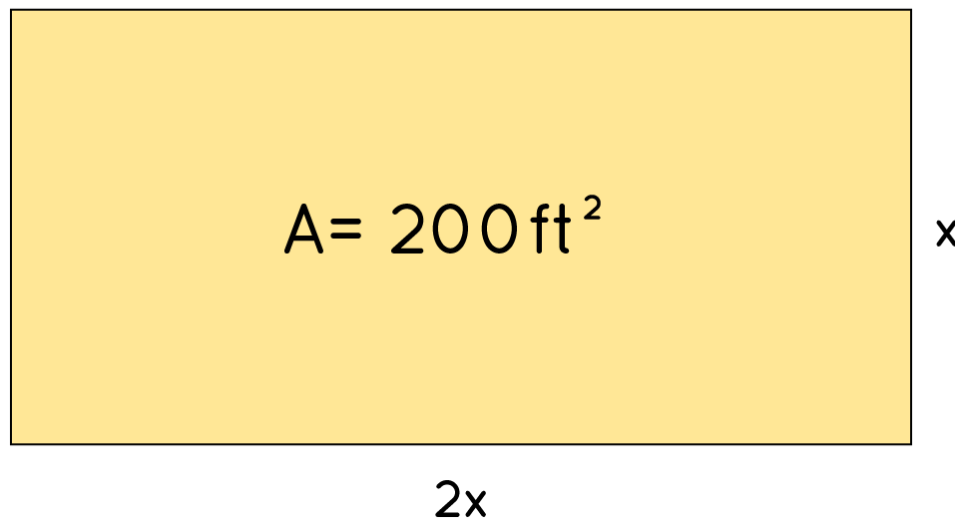
5.  $2xy + 8y + 4x + 16$

6.  $8x^3 - 36x^2 + 54x - 27$

7. Fill in the missing values in the following factorization:

$$16xz + 24x^2y = \_x(2z + \_y)$$

8. If the area of a rectangular plot is denoted by  $5x^2 - 22x + 24$ , find the length and breadth of the plot if  $x = 5$ .



9. The distance covered by a biker is denoted by  $4x^2 - 8x - 5$  and the time is denoted by  $2x - 5$ . Find the speed at  $x = 7$ .
10. Find the value of  $m$  if  $3x^2 + mx + 4$  has 1 as one of its roots.



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in an interesting way,  
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- 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.	$2(x-2)$
2.	$(x-7)^2$
3.	$(2x-3)^2$
4.	$(4x+5)(4x-5)$
5.	$(2y+4)(x+4)$
6.	$(2x-3)^3$
7.	8 and $3x$
8.	13 and 3
9.	15
10.	-7