NI A BAF	DATE	DED
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## **Retest Review: POLYNOMIALS & FACTORING**

Answer the following.

1. Simplify the algebraic expression  $4(x^2 - 4x + 6) - 2x(x - 5)$ .

2. Find the perimeter of the triangle whose sides are  $5x^2 + 6x - 1$ ,  $3x^2 - 2x - 4$ , and  $x^2 - x + 7$ .

3. Find the product (4x - 3)(6x + 1).

4. A rectangle has a width of 3x + 4 and a length of 2x - 5, find the expression that would represent the area of the rectangle.

Factor completely.
5. x<sup>2</sup> + 3x - 18

5. 
$$x^2 + 3x - 18$$

6.  $a^2 - 144$ 

7. 
$$2a^3 + 8a^2 - 18a$$

8.  $3x^2 - 12x - 36$ 

9. $x^2 + 16x + 48$	10. $x^2 - 19x + 78$
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11. $3a^2 - 243$	12. $6x^2 + 30x - 42$