Polynomial Work Sheet--Math 4 SN

- 1. What polynomial must be added to the trinomial $6x^2 5x + 4$ in order to obtain the trinomial $x^2 2x 6$?
- 2. What polynomial multiplied by (x + 3) equals $(x^2 + 2x 3)$?
- 3. Subtract $3x^2 2x + 5$ from $2x^2 + 5x 2$.
- 4. If the side of a square is (2x + 3) cm, what polynomial represents its perimeter? What polynomial represents its area?
- 5. Is the binomial 2x 3 a factor of $6x^3 5x^2 + 8x 6$? Justify your answer.
- 6. What is the second factor of $(11x^2 26x 21)$ if the first factor is x 3?
- 7. The length of a rectangular lot is (5x + 4y) m. Its width is (2x y) m less than the length. What polynomial represents the perimeter of the lot? What polynomial represents the area of the lot?
- 8. Calculate the mean of (x + 3), (2x 5) and (6x 1).
- 9. Rewrite $2x^2 + x 15$ as a product of x + 3 and another binomial.
- 10. Subtract the sum of $3x^2 5x + 8$ and $-5x^2 + 7x 1$ from $8x^2 + 2x 5$.
- 11. What is the product of (5x-1) and (2x+7)?
- 12. The area of a rectangle is $(5x^2 20x)$ cm². What algebraic expression could represent the length and width?

Answers

Answers

$$A = (15x^2 + 37xy + 20y^2)$$

1. $(-5x^2 + 3x - 10)$

2. $(x-1)$

3. $(-5x^2 + 3x - 10)$

4. $(-5x^2 + 3x - 10)$

7. $(-5x^2 + 37xy + 20y^2)$

8. $(3x-1)$

9. $(x+3)(2x-5)$

10. $(10x^2-12)$

11. $(-5x^2 + 37xy + 20y^2)$

12. $(-5x^2 + 37xy + 20y^2)$

13. $(-5x^2 + 37xy + 20y^2)$

14. $(-5x^2 + 37xy + 20y^2)$

15. $(-5x^2 + 37xy + 20y^2)$

16. $(-5x^2 + 37xy + 20y^2)$

17. $(-5x^2 + 37xy + 20y^2)$

18. $(-5x^2 + 37xy + 20y^2)$

19. $(-5x^2 + 30x + 20y^2)$

19. $(-5x^2 + 30x + 20y^2)$

19. $(-$