(3x−5)(2x−6)

Key

11. Fred is given a rectangular piece of paper. If the length of Fred's. piece of paper is represented by $2x-6$ and the width is represented by $3x-5$, then the paper has a total area represented by

11. B

A. $5x-11$ B. $6x^2-28x+30$ C. $10x-22$ D. $6x^2-6x-11$

$6x^2-10x-18x+30$

$6x^2-28x+30$

12. When factored completely, the expression p^4-81 is equivalent to

12. C

A. $(p^2+9)(p^2-9)$ B. $(p^2-9)(p^2-9)$

C. $(p^2+9)(p+3)(p-3)$ D. $(p+3)(p-3)(p+3)(p-3)$

13. When $(2x-3)^2$ is subtracted from $5x^2$, the result is

13. C

A. $x^2-12x-9$ B. $x^2-12x+9$ C. $x^2+12x-9$ D. $x^2+12x+9$

$-6x-6x$

$(2x-3)(2x-3)-5x^2$ $-x^2-12x+9$

$5x^2-4x^2+12x+9-5x^2$

$x^2+12x-9$

14. When factored completely, x^3-13x^2-30x is

14. C

A. $x(x+3)(x-10)$ B. $x(x-3)(x-10)$ C. $x(x+2)(x-15)$ D. $x(x-2)(x+15)$

$x(x^2-13x-30)$

$x(x-15)(x+2)$

15. Which expression is equivalent to $16x^2-36$?

15. B

A. $4(2x-3)(2x-3)$ B. $4(2x+3)(2x-3)$ C. $(4x-6)(4x-6)$ D. $(4x+6)(4x+6)$

$4(4x^2-9)$

$4(2x+3)(2x-3)$

16. Which expression is equivalent to $2(3g-4)-(8g+3)$?

16. D

A. $-2g-1$ B. $-2g-5$ C. $-2g-7$ D. $-2g-11$

$6g-8-8g-3$

$-2g-11$