Which of the following is equivalent to the expression below?

$$x^2 + 3x - 5x^2 + 6$$

A.
$$-4x^2 + 3x + 6$$

B.
$$4x^2 + 3x + 6$$

C.
$$x^2 - 2x + 6$$

D.
$$x^2 + 2x + 6$$

Which of the following shows the expression below in factored form?

$$4y^3 + 6y^2 - 14y$$

A.
$$2y(2y^2 + 3y - 7)$$

B.
$$4y(y^2 + 2y - 10)$$

C.
$$2y^2(2y + 3 - 7y)$$

D.
$$4y^2(y + 2 - 10y)$$

my MCAS.com

Which of the following shows the expression below in factored form?

$$x^2 + 2x - 8$$

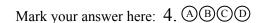
A.
$$(x-2)(x+4)$$

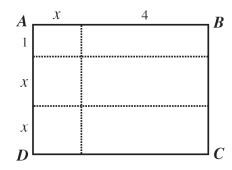
B.
$$(x+2)(x-4)$$

C.
$$(x-1)(x+8)$$

D.
$$(x+1)(x-8)$$

In the figure below, rectangle *ABCD* contains six smaller rectangles with dimensions shown.





Which of the following represents the area of rectangle *ABCD*?

A.
$$(x + 4) + (2x + 1)$$

B.
$$2[(x + 4) + (2x + 1)]$$

C.
$$2x \cdot x + 4 \cdot 1$$

D.
$$(x + 4)(2x + 1)$$

myMCAS.com

5

A rectangle and an equation representing its area, *A*, are shown below.

Mark your answer here: 5. ABCD

$$A = x^2 + x - 6$$

h

Which of the following could represent b, the length of the base of the rectangle, and h, the height of the rectangle?

A.
$$b = (x - 3); h = (x - 2)$$

B.
$$b = (x - 3); h = (x + 2)$$

C.
$$b = (x + 3); h = (x + 2)$$

D.
$$b = (x + 3); h = (x - 2)$$

6

Which of the following is a factor of the polynomial below?

$$4x^3y - 8x^2y^2 + 10xy^3$$

A.
$$4y^2$$

B.
$$2x^2$$

D.
$$x^2v^2$$

Mark your answer here: 6. ABCD

my MCAS.com

7

Which of the following is equivalent to expression below?

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

A.
$$3x^3 - 2x - 6$$

B.
$$3x^3 + x - 6$$

C.
$$3x^3 - x^2 - 2x - 6$$

D.
$$3x^3 - 4x^2 + x - 6$$

8

Which of the following is a factor of the polynomial shown below?

$$9x^4 + 12x^3y + 6x^2$$

B.
$$3x^2$$

C.
$$6x^2$$

D.
$$3x^{3}$$

Mark your answer here: 7. ABCD

Mark your answer here: 8. ABCD

my**MCAS**.com