

#1

ID: f5c3e3b8

Which expression is equivalent to $(m^4 q^4 z^{-1})(mq^5 z^3)$, where m , q , and z are positive?

- A) $m^4 q^{20} z^{-3}$
- B) $m^5 q^9 z^2$
- C) $m^6 q^8 z^{-1}$
- D) $m^{20} q^{12} z^{-2}$

#2

ID: 72ebc024

Which expression is equivalent to $16x^3 y^2 + 14xy$?

- A) $2xy(8xy + 7)$
- B) $2xy(8x^2 y + 7)$
- C) $14xy(2x^2 y + 1)$
- D) $14xy(8x^2 y + 1)$

#3

ID: e312081b

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

Which of the following is equivalent to the given expression?

- A) $3x - 2$
- B) $3x + 2$
- C) $3x - 8$
- D) $3x + 8$

#4

ID: 4ac59df6

Which expression is equivalent to $(8yz)(y)(7z)$?

- A) $56y^2 z^2$
- B) $56y^2 z$
- C) $56yz$
- D) $16yz$

#5

ID: 70482e20

Which expression is equivalent to $11x^3 - 5x^3$?

- A) $16x^3$
- B) $6x^3$
- C) $6x^6$
- D) $16x^6$

#6

ID: 8452c42b

Which expression is equivalent to $50x^2 + 5x^2$?

- A) $250x^2$
- B) $10x^2$
- C) $45x^2$
- D) $55x^2$

#9

ID: 02489d55

Which expression is equivalent to $19(x^2 - 7)$?

- A) $19x^2 - 133$
- B) $19x^2 - 26$
- C) $19x^2 - 7$
- D) $19x^2 + 12$

#7

ID: 0536ad4f

Which expression is equivalent to $20w - (4w + 3w)$?

- A) $10w$
- B) $13w$
- C) $19w$
- D) $21w$

#10

ID: 60fdb4d4

Which expression is equivalent to $(2x^2 - 4) - (-3x^2 + 2x - 7)$?

- A) $5x^2 - 2x + 3$
- B) $5x^2 + 2x - 3$
- C) $-x^2 - 2x - 11$
- D) $-x^2 + 2x - 11$

#8

ID: 1d3fee25

Which of the following is equivalent to $3(x + 5) - 6$?

- A) $3x - 3$
- B) $3x - 1$
- C) $3x + 9$
- D) $15x - 6$

#11

ID: 4a5af623

Which expression is a factor of $2x^2 + 38x + 10$?

- A) 2
- B) $5x$
- C) $38x$
- D) $2x^2$

#12

ID: 49efde89

The expression $2x^2 + ax$ is equivalent to $x(2x + 7)$ for some constant a . What is the value of a ?

- A) 2
- B) 3
- C) 4
- D) 7

#15

ID: bdb0aa23

Which expression is equivalent to $5x^5 - 6x^4 + 8x^3$?

- A) $x^4(5x - 6)$
- B) $x^3(5x^2 - 6x + 8)$
- C) $8x^3(5x^2 - 6x + 1)$
- D) $6x^5(-6x^4 + 8x^3 + 1)$

#13

ID: 9ed9f54d

Which of the following is equivalent to $2(x^2 - x) + 3(x^2 - x)$?

- A) $5x^2 - 5x$
- B) $5x^2 + 5x$
- C) $5x$
- D) $5x^2$

#16

ID: beb86a0c

Which expression is equivalent to $9x^2 + 5x$?

- A) $x(9x + 5)$
- B) $5x(9x + 1)$
- C) $9x(x + 5)$
- D) $x^2(9x + 5)$

#14

ID: 294db8ec

Which of the following is equivalent to $2x^3 + 4$?

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

#17

ID: 6e06a0a7

Which of the following expressions is equivalent to $2a^2(a + 3)$?

- A) $5a^3$
- B) $8a^5$
- C) $2a^3 + 3$
- D) $2a^3 + 6a^2$

#18

ID: 499cb491

Which expression is equivalent to $5x^2 - 50xy^2$?

- A) $5x(x - 10y^2)$
- B) $5x(x - 50y^2)$
- C) $5x^2(10xy^2)$
- D) $5x^2(50xy^2)$

#19

ID: 67e866b5

Which expression is equivalent to $9x^2 + 7x^2 + 9x$?

- A) $63x^4 + 9x$
- B) $9x^2 + 16x$
- C) $25x^5$
- D) $16x^2 + 9x$

#20

ID: fd65f47f

Which expression is equivalent to $(2x^2 + x - 9) + (x^2 + 6x + 1)$?

- A) $2x^2 + 7x + 10$
- B) $2x^2 + 6x - 8$
- C) $3x^2 + 7x - 10$
- D) $3x^2 + 7x - 8$

#21

ID: df0ef054

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

Which of the following is equivalent to the expression above?

- A) $x^3 + 5x$
- B) $3x^3 + x$
- C) $2x^6 - x^4 - 6x^2$
- D) $3x^6 - x^4 - 6x^2$

#22

ID: 127b2759

Which expression is equivalent to $8 + d^2 + 3$?

- A) $d^2 + 24$
- B) $d^2 + 11$
- C) $d^2 + 5$
- D) $d^2 - 11$

#23

ID: fb96a5b3

Which of the following expressions is equivalent to $2(ab - 3) + 2$?

- A) $2ab - 1$
- B) $2ab - 4$
- C) $2ab - 5$
- D) $2ab - 8$

#24

ID: df747160

Which expression is equivalent to $17(x^2 - 100y^2)$?

- A) $17(x - 2y)(x - 50y)$
- B) $17(x - 2y)(x + 50y)$
- C) $17(x - 10y)(x - 10y)$
- D) $17(x - 10y)(x + 10y)$

#27

ID: 1e8d7183

Which expression is equivalent to $256w^2 - 676$?

- A) $(16w - 26)(16w - 26)$
- B) $(8w - 13)(8w + 13)$
- C) $(8w - 13)(8w - 13)$
- D) $(16w - 26)(16w + 26)$

#25

ID: e597050f

Which expression is equivalent to $9x + 6x + 2y + 3y$?

- A) $3x + 5y$
- B) $6x + 8y$
- C) $12x + 8y$
- D) $15x + 5y$

#28

ID: 0354c7de

$5x + 15$

Which of the following is equivalent to the given expression?

- A) $5(x + 3)$
- B) $5(x + 10)$
- C) $5(x + 15)$
- D) $5(x + 20)$

#26

ID: 5dd53f73

Which expression is equivalent to $34x + 34y$?

- A) $34xy$
- B) $34(x + y)$
- C) $68y$
- D) $68x$

#29

ID: fd4b2aa0

Which expression is equivalent to $12x^3 - 5x^3$?

- A) $7x^6$
- B) $17x^3$
- C) $7x^3$
- D) $17x^6$

#30

ID: 5d93c782

Which expression is equivalent to $x^2 + 3x - 40$?

- A) $(x - 4)(x + 10)$
- B) $(x - 5)(x + 8)$
- C) $(x - 8)(x + 5)$
- D) $(x - 10)(x + 4)$

#32

ID: d4d513ff

Which expression is equivalent to $12x + 27$?

- A) $12(9x + 1)$
- B) $27(12x + 1)$
- C) $3(4x + 9)$
- D) $3(9x + 24)$

#31

ID: 974d33dc

Which of the following expressions is equivalent to the sum of $(r^3 + 5r^2 + 7)$ and $(r^2 + 8r + 12)$?

- A) $r^5 + 13r^3 + 19$
- B) $2r^3 + 13r^2 + 19$
- C) $r^3 + 5r^2 + 7r + 12$
- D) $r^3 + 6r^2 + 8r + 19$