

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Advanced Math	Equivalent expressions	<div><div></div><div></div><div></div></div>

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. $3x+8$

สนใจเฉพาะตัวแตกต่างและตัดไข้อย
ไว้มาก

$5+(-3) = 2$

Question ID 1d3fee25

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Advanced Math	Equivalent expressions	<div><div></div><div></div><div></div></div>

ID: 1d3fee25

1.2

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

A. $3x-3$

$$15 - 6 = 9$$

B. $3x-1$

~~C. $3x+9$~~

~~D. $15x-6$~~

Question ID 60fdb4d4

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Advanced Math	Equivalent expressions	<div> <div></div> <div></div> <div></div> </div>

ID: 60fdb4d4

1.3

Which expression is equivalent to

$$(\underbrace{2x^2 - 4}) - (\underbrace{-3x^2 + 2x - 7})?$$

~~A. $5x^2 - 2x + 3$~~

$$5x^2 - 2x$$

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

C. $-x^2 - 2x - 11$

D. $-x^2 + 2x - 11$

Question ID 49efde89

Assessment	Test	Domain	Skill	Difficulty
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ID: 49efde89

1.4

The expression $2x^2 + \textcolor{red}{a}x$ is equivalent to $x(\textcolor{red}{2}x + \textcolor{red}{7})$ for some constant a . What is the value of a ?

- A. 2
- B. 3
- C. 4
- ~~D. 7~~

Question ID 9ed9f54d

Assessment	Test	Domain	Skill	Difficulty
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ID: 9ed9f54d

1.5

Which of the following is equivalent to

$$2(\underline{x^2 - x}) + 3(\underline{x^2 - x})?$$

~~A. $5x^2 - 5x$~~

$$5x^2 - 5x$$

B. $5x^2 + 5x$

C. $5x$

D. $5x^2$

Question ID 294db8ec

Assessment	Test	Domain	Skill	Difficulty
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ID: 294db8ec

1.6

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

A. ~~$x^3 + 4$~~

B. ~~$x^3 + 2$~~

C. $2(x^3 + \text{~~2~~)}$

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

ลองคูณกลับในแต่ละข้อ และตัดข้อ
แทนที่จะ ดึงตัวร่วม (Common Factor)

Question ID 6e06a0a7

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Advanced Math	Equivalent expressions	<div> <div></div> <div></div> <div></div> </div>

ID: 6e06a0a7

1.7

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

A. ~~$5a^3$~~

B. ~~$8a^5$~~

C. ~~$2a^3+3$~~

~~$2a^3+6a^2$~~

$$2a^3 + 6a^2$$

Question ID df0ef054

Assessment	Test	Domain	Skill	Difficulty
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ID: df0ef054

1.8

$(\underbrace{2x^3+3x})(\underbrace{x^3-2x})$

Which of the following is equivalent to the expression above?

- A. ~~x^3+5x~~

B. ~~$3x^3+x$~~

~~$2x^6-x^4-6x^2$~~

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

Question ID 127b2759

Assessment	Test	Domain	Skill	Difficulty
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ID: 127b2759

1.9

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

A. $d^2 + 24$

~~B. $d^2 + 11$~~

C. $d^2 + 5$

D. $d^2 - 11$

$d^2 + 11$

Question ID fb96a5b3

Assessment	Test	Domain	Skill	Difficulty
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ID: fb96a5b3

1.10

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

A. $2ab - 1$

~~B. $2ab - 4$~~

C. $2ab - 5$

D. $2ab - 8$

$$-6 + 2 = -4$$

Question ID e597050f

Assessment	Test	Domain	Skill	Difficulty
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ID: e597050f

1.11

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

A. ~~3~~ $x + 5y$

B. ~~6~~ $x + 8y$

C. ~~12~~ $x + 8y$

D. ~~15~~ $x + 5y$

~~9~~ $x + 6x + 2y + 3y$

15X

Question ID 1e8d7183

Assessment	Test	Domain	Skill	Difficulty
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ID: 1e8d7183

1.12

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

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

คือ
เครื่องหมาย หน้า $\times$ หน้า
หลัง $\times$ หลัง

Question ID 0354c7de

Assessment	Test	Domain	Skill	Difficulty
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ID: 0354c7de

1.13

$5x + 15$

Which of the following is equivalent to the given expression?

~~A.~~ $5(x + 3)$

B. $5(x + 10)$

C. $5(x + 15)$

D. $5(x + 20)$

Question ID 974d33dc

Assessment	Test	Domain	Skill	Difficulty
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ID: 974d33dc

1.14

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. ~~$2r^3 + 14r^2 + 19$~~

C. ~~$r^3 + 5r^2 + 7r + 12$~~

~~D. $r^3 + 6r^2 + 8r + 19$~~

Question ID d4d513ff

Assessment	Test	Domain	Skill	Difficulty
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ID: d4d513ff

1.15

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

A. ~~12~~(~~9~~ $x + 1$)

B. ~~27~~(~~12~~ $x + 1$)

~~3~~(~~4~~ $x + 9$)

D. ~~3~~(~~9~~ $x + 24$)

Question ID 5dd53f73

Assessment	Test	Domain	Skill	Difficulty
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ID: 5dd53f73

1.16

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

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

Question ID 4ac59df6

Assessment	Test	Domain	Skill	Difficulty
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ID: 4ac59df6

1.17

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

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

$56 y^2 z^2$

Question ID 72ebc024

Assessment	Test	Domain	Skill	Difficulty
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ID: 72ebc024

1.18

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

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