

Question ID e312081b

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

ID: e312081b

1.1

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

Which of the following is equivalent to the given expression?

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

Question ID 1d3fee25

Assessment	Test	Domain	Skill	Difficulty
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ID: 1d3fee25

1.2

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

- A. $3x - 3$
- 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 $(2x^2 - 4) - (-3x^2 + 2x - 7)$?

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

Question ID 49efde89

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

ID: 49efde89

1.4

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

Question ID 9ed9f54d

Assessment	Test	Domain	Skill	Difficulty
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ID: 9ed9f54d

1.5

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. $5x^2$

Question ID 294db8ec

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

ID: 294db8ec

1.6

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. $2(x^3 + 2)$

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. $2a^3+3$
- D. $2a^3+6a^2$

Question ID df0ef054

Assessment	Test	Domain	Skill	Difficulty
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ID: df0ef054

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

1.8

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

Question ID 127b2759

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

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. $d^2 - 11$

Question ID fb96a5b3

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

ID: fb96a5b3

1.10

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

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

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

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. $(16w - 26)(16w + 26)$

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. $2r^3 + 13r^2 + 19$
- 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. $12(9x + 1)$
- B. $27(12x + 1)$
- C. $3(4x + 9)$
- D. $3(9x + 24)$

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

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. $14xy(8x^2y + 1)$