

Graphing Calculator Active

A.1d Solving multistep linear equations

1. What is the value of x if $3 - 4x = 18 + x$?

- A -3
- B $-\frac{1}{3}$
- C $\frac{1}{3}$
- D 3

2. What is the value of x if $2x + 3 = -12 - x$?

- A -5
- B $-\frac{1}{5}$
- C $\frac{1}{5}$
- D 5

3. What is the value of x if $-3 + 7x = x - 17$?

- A $-\frac{7}{3}$
- B $-\frac{3}{7}$
- C $\frac{3}{7}$
- D $\frac{7}{3}$

3. What is the value of x if $-3x - 4 = 4x + 10$?

- A -14
- B -2
- C $-\frac{6}{7}$
- D 2

SOL Warm-Up
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A.1e Solving multistep linear equations

1. What is the value of x if $6x + 7 = 13x - 9$?

- A** $-\frac{16}{7}$
- B** $-\frac{7}{16}$
- C** $\frac{7}{16}$
- D** $\frac{16}{7}$

2. What is the value of x if $-41x - 9 = -13x - 16$?

- A** -4
- B** $-\frac{1}{4}$
- C** $\frac{1}{4}$
- D** 4

3. What is the value of x if $-3 - 12x = 12x - 3$?

- A** $-\frac{1}{4}$
- B** 0
- C** $\frac{1}{4}$
- D** 4

SOL Warm-Up
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A.1i Solving multistep linear equations and noncompound inequalities

1. What is the value of x if $3(x + 4) = 2(x - 1)$?

- A** -14
- B** -13
- C** 13
- D** 14

2. What is the value of x if $8x - (6x - 4) = 10$?

- A** -14
- B** 3
- C** 7
- D** 14

3. What is the value of x if $6x - 2(3 - 5x) = 40$?

- A** $\frac{-23}{2}$
- B** $\frac{-46}{16}$
- C** $\frac{23}{8}$
- D** $\frac{23}{2}$

4. What is the value of x if $2(-3x + 4) = 4(-2x + 6)$?

- A** -8
- B** -1
- C** 1
- D** 8

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A.1j Solving multistep linear equations and noncompound inequalities

1. What is the value of x if $-3 + 2(4x - 13) = -40x + 7$?

- A** $-\frac{3}{4}$
- B** $-\frac{17}{34}$
- C** $\frac{17}{34}$
- D** $\frac{3}{4}$

2. What is the value of x if $-5(6 - x) = 9(x + 2) - 16$?

- A** -8
- B** -4
- C** 4
- D** 8

3. What is the value of x if $-8(x + 1) + 3(x - 2) = -3x + 2$?

- A** -8
- B** -2
- C** 2
- D** 8

4. What is the value of x if $6(x + 5) - 3(x - 2) = 12x + 18$?

- A** -8
- B** -2
- C** 2
- D** 8

SOL Warm-Up

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A.1m Solving a literal equation

1. The formula for the volume of a rectangular prism is $V = LWH$. Which equation solves the formula for L?

A $L = V - WH$

B $L = \frac{VH}{W}$

C $L = \frac{VW}{H}$

D $L = \frac{V}{HW}$

2. The formula for the surface area of a pyramid is: $SA = \frac{1}{2}LP + B$. Which equation solves the formula for P?

A $P = \frac{2SA - L}{B}$

B $P = \frac{2SA}{B} - B$

C $P = \frac{2SA}{L} - B$

D $P = \frac{2SA - 2B}{L}$

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A.1n Solving a literal equation

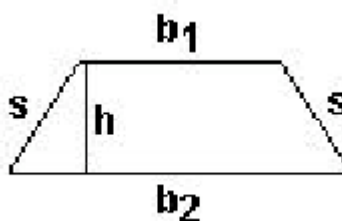
1. The figure below is an isosceles trapezoid. The formula for the area is $A = \frac{1}{2}h(b_1 + b_2)$. Which equation solves this formula for h ?

A $h = \frac{2A}{b_1 + b_2}$

B $h = \frac{1}{2}A - b_1 - b_2$

C $h = \frac{A}{2b_1 + 2b_2}$

D $h = \frac{b_1 + b_2}{2A}$



2. The formula for the volume of a pyramid is $V = \frac{1}{3}bh$. Which equation solves the formula for h ?

A $h = 3Vb$

B $h = \frac{3b}{V}$

C $h = \frac{3V}{b}$

D $h = \frac{V}{3b}$

SOL Warm-Up

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A.1o Solving a literal equation

1. If $y = mx + bk$, which of the following equations is solved for m ?

A $m = \frac{y-bk}{x}$

B $m = y + bk - x$

C $m = \frac{y+bk}{x}$

D $m = \frac{bk}{y-x}$

2. If $w = 7a + 4b$, which of the following equations is solved for a ?

A $a = \frac{w-7b}{4}$

B $a = \frac{w}{7} - 4b$

C $a = \frac{w-4b}{7}$

D $a = \frac{w}{7} - 28b$