

## 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**  
**Graphing Calculator Active**

**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

### Graphing Calculator Active

**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

**SOL Warm-Up**  
**Graphing Calculator Active**

**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

### Graphing Calculator Active

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

## SOL Warm-Up

### Graphing Calculator Active

#### A.1n Solving a literal equation

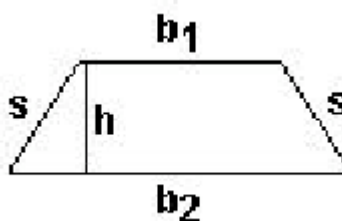
1. The figure below is an isosceles trapezoid. The formula for the area is  $A = \frac{1}{2}h(b_1 + b_2)$ . Which equation solves this formula for  $h$ ?

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

### Graphing Calculator Active

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