Solve the equation.

$$-7x = 56$$

حل المعادلة.

$$-7x = 56$$

$$\frac{-7x}{-7} = \frac{56}{-7}$$

$$x = -8$$

a. $x = -8$

b. $x = 9$

c. $x = 7$ ✓

Select the angle that is complementary to the given angle.

اختر الزاوية المتممة للزاوية المعطاة.

$$x + 23° = 90°$$
$$-23° \quad -23$$
$$x = 67$$

23°
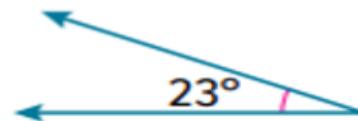
Learning Outcomes Covered

○ MAT.3.07.04.002

135°

a.

✓
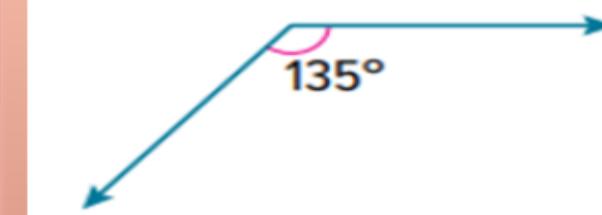
Factor the expression.

$5x + 35$

$5x : 1, \boxed{5} x$

$35 : 1, \boxed{5}, 7, 35$

$GCF : 5$

$5(x + 7)$

حلّ التعبير الجبري.

$5x + 35$

Learning Outcomes Covered

○ MAT.3.02.11.002

a. $5(x + 35)$

b. $5(x + 7)$ ✓

c. $7(x + 5)$

d. $40\, x$

Name the angle in two ways.
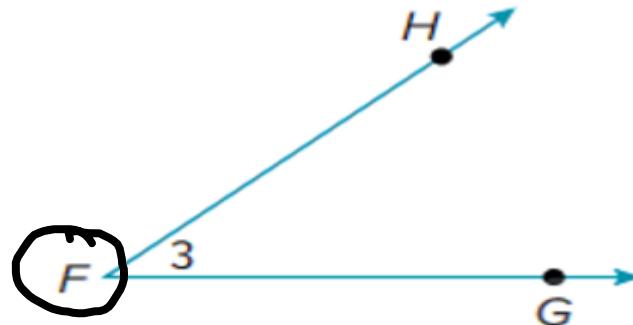
$\angle HEG$ ✓
$\angle F$ ✓
$\angle 3$
$\angle GFH$

Learning Outcomes Covered

- MAT.3.07.04.001

a. $\angle HFG, \angle F$ ✓

b. $\angle HFG, \angle H$

$\angle HGF, \angle F$

Identify like terms in the expression.

$5x^2, -5, 5x, 3x^2$

حدد الحدود المتشابهة في التعبير.

$5x^2, -5, 5x, 3x^2$

Learning Outcomes Covered

- MAT.3.02.11.002

a. $5x^2, -5$

b. $5x^2, 5x$

c. $5x^2, 3x^2$ ✓

$-5, 5x$

Solve.

$$x + 5 < 14$$

$$x + 5 < 14$$
$$-5 \quad -5$$
$$x < 9$$

حل .

$$x + 5 < 14$$

a. $x < 9$

b. $x > 9$

c. $x \geq 9$

$x \leq 9$

Nour paid AED 90 for a shirt that was on sale. The difference between the original price and the sale price was at most AED 15.50. Write an inequality to determine the possible price of the shirt P.

دفعت نور AED 90 ثمنا لقميص أثناء التخفيضات. الاختلاف بين السعر الأصلي وسعر التخفيض كان على الأكثر AED 15.50. اكتب متباينة لتحديد السعر المحتمل للقميص P.

Learning Outcomes Covered

- MAT.3.07.04.001

a. $P - 90 \leq 15.50$ ✓

b. $P - 90 \geq 15.50$

A tree is leaning as shown in the figure. Write an equation that can be used to find the value of x.

شجرة تميل كما هو موضح بالشكل.
اكتب معادلة يمكن استخدامها لإيجاد قيمة x.

$$12x + 9° + 105° = 180°$$
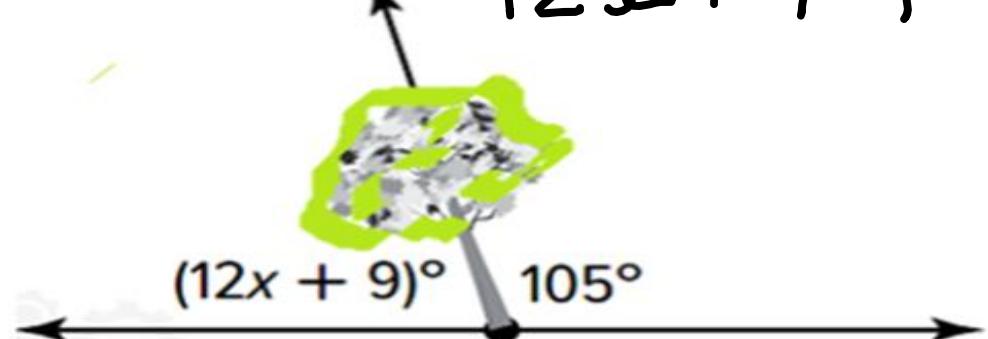
$(12x + 9)°$　　$105°$

Learning Outcomes Covered

- MAT.3.07.04.001

a. $12x + 9 + 105 = 90°$

b. $12x + 9 + 105 = 180°$ ✓

Solve the inequality.

$$-4x \geq -36$$

حل المتباينة.

$$-4x \geq -36$$

$$-4x \geq -36$$
$$\frac{-4x}{-4} \qquad \frac{-36}{-4}$$
$$x \leq 9$$

Learning Outcomes Covered

- MAT.3.07.04.001

a. $x \leq 9$

b. $x \geq 9$ ✓

c. $x \geq -9$

$x \leq -9$

Solve the equation.

$0.5x + 2 = 17$

حل المعادلة.

$0.5x + 2 = 17$

$$0.5x + 2 = 17$$
$$-2 \quad -2$$
$$\overline{}$$
$$0.5x = 15$$
$$\frac{0.5x}{0.5} \quad \frac{15}{0.5}$$
$$x = 30$$

Learning Outcomes Covered

- MAT.3.07.04.001

a. $x = 15$ ✓

b. $x = 11$

c. $x = 30$

Amal started with $ 54 and spent −
$ 6 each day at camp. She has $ 18
left. Write an equation to find how
many days d Amal was at camp.

بدأت أمل بمبلغ 54 $ وأنفقت 6 $ لكل يوم في
المعسكر. بقي لديها 18 $.
اكتب معادلة لإيجاد كم عدد الأيام d التي
قضتها أمل في المعسكر.

$$54 - 6d = 18$$

a. $6 + 54\,d = 18$

b. $54 + 6d = 18$

c. $6 - 54\,d = 18$ ✓

$54 - 6d = 18$

Solve the equation.

$$-1\frac{7}{8}x = 4\frac{1}{2}$$

Learning Outcomes Covered

- MAT.3.07.04.001

a. $X = \dfrac{12}{5}$

b. $X = \dfrac{15}{8}$ ✓

c. $X = -\dfrac{12}{5}$

5

Handwritten work:

$$-\frac{15}{8}$$

$$-1\frac{7}{8}x = 4\frac{1}{2}$$

$$-\frac{8}{15}\left(-\frac{15}{8}\right)x = \frac{9}{2}\left(-\frac{8}{15}\right)$$

$$x = \frac{12}{5}$$

$$x = -\frac{12}{5}$$

Simplify $6n - 1 - 8n + 9$.

$6n - 1 - 8n + 9$ بسّط

$$6n - 8n - 1 + 9$$
$$= -2n + 8$$

a. $2n - 8$ ✓

b. $2n + 8$

c. $-2n + 8$

d. $14n - 10$

solve the inequality.

$$2z - 9\frac{1}{3} > 1\frac{5}{9}$$

حل المتباينة.

$$2z - 9\frac{1}{3} > 1\frac{5}{9}$$

Learning Outcomes Covered

○ MAT.3.07.04.001

Handwritten work:

$$2z - 9\frac{1}{3} > 1\frac{5}{9}$$
$$+9\frac{1}{3} \quad +9\frac{1}{3} \quad \times 3$$
$$\left(\frac{1}{2}\right)\frac{2}{1}z > 49\frac{98}{9}\left(\frac{1}{2}\right)$$
$$z > \frac{49}{9}$$

a. $z > \dfrac{49}{9}$ ✓

b. $z > \dfrac{98}{9}$

c. $z > \dfrac{8}{9}$

$z < \dfrac{9}{}$

Which of the following triangles is

a right triangle?

أي من المثلثات الآتية هو مثلث قائم؟

Learning Outcomes Covered

- MAT.3.08.01.006

a.
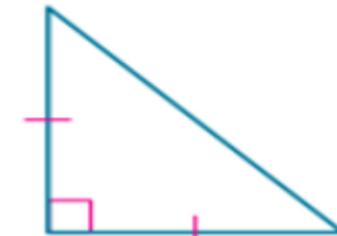
Solve.

$$-6 \geq \frac{x}{7}$$

Learning Outcomes Covered

- MAT.3.02.11.002

Handwritten work:

$$(7)-6 \geq \frac{x}{7}(7)$$

$$-42 \geq x$$

$$x \leq -42$$

حل.

$$-6 \geq \frac{x}{7}$$

a. $x \leq -42$ ✓

b. $x \geq -42$

c. $x \leq 42$

$x \geq 42$

Add 3b + 7b.

$$\begin{array}{r} 3b \\ + \ 7b \\ \hline 10b \end{array}$$

اجمع 3b + 7b.

**Learning Outcomes Covered**

- MAT.3.02.11.002

a. **10**

b. **10b** ✓

c. **4b**

d. **10b^2**

Graph the solution set of the inequality on the number line.

$$x < \frac{1}{3}$$

<div dir="rtl">مثل مجموعة حل المتباينة على مستقيم الأعداد.</div>

$$x < \frac{1}{3}$$
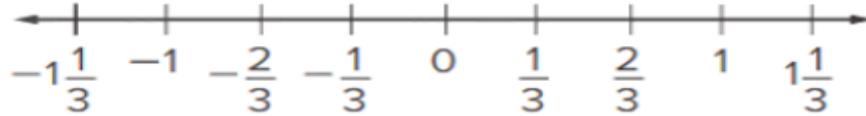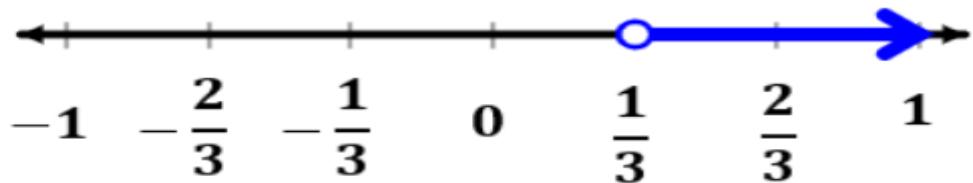
a.
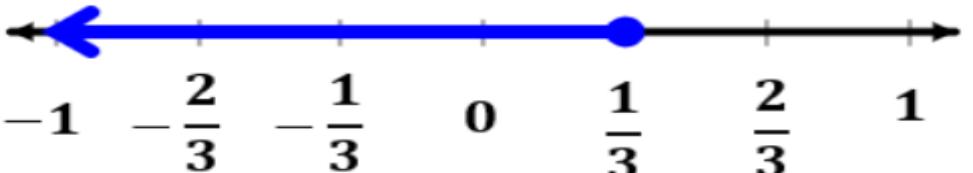
b.

Solve the equation.

$$x + 7 = 2$$

$$x + 7 = 2$$
$$\ -7\ \ -7$$
$$x = -5$$

Learning Outcomes Covered

○ MAT.3.02.11.002

a. $x = -9$

b. $x = 5$

c. $x = -5$

d. $x = 7$ ✓

Add $(-5x + 6) + (-4x - 7)$ $(-5x + 6) + (-4x - 7)$ اجمع.

$$-5x \qquad +6$$
$$+ (-4x) \qquad + (-7)$$
$$\overline{\qquad\qquad} \qquad \overline{\qquad\qquad}$$
$$-9x - 1$$

Learning Outcomes Covered

- MAT.3.07.04.001

a. $-9x + 1$

b. $9x + 13$

c. $-9x - 1$ ✓

d. $x + 13$