

Solve the equation.

$$-7x = 56$$

$$\begin{array}{r|l} \cancel{+7}x = 56 & \\ \hline \cancel{-7} & -7 \\ \hline x = -8 & \end{array}$$

حل المعادلة.

$$-7x = 56$$

Learning Outcomes Covered

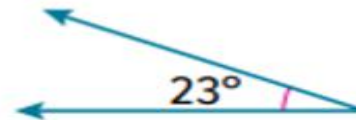
◦ MAT.3.02.11.002

a. $x = -8$

b. $x = 9$

c. $x = 7$

Select the angle that is
complementary to the given angle.



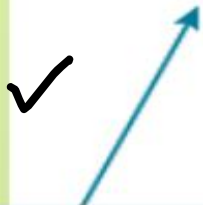
اختر الزاوية المتممة للزاوية المعطاة.

$$\begin{array}{r} x + 23^\circ = 90^\circ \\ - 23^\circ \quad - 23 \\ \hline x = 67 \end{array}$$

Learning Outcomes Covered

- MAT.3.07.04.002

a.



Factor the expression.
 $5x + 35$

حلّ التعبير الجبري.
 $5x + 35$

Learning Outcomes Covered

◦ MAT.3.02.11.002

$5x : 1, 5x$
 $35 : 1, 5, 7, 35$

GCF: 5

$5(x + 7)$

a.

$5(x + 35)$

b.

$5(x + 7)$

c.

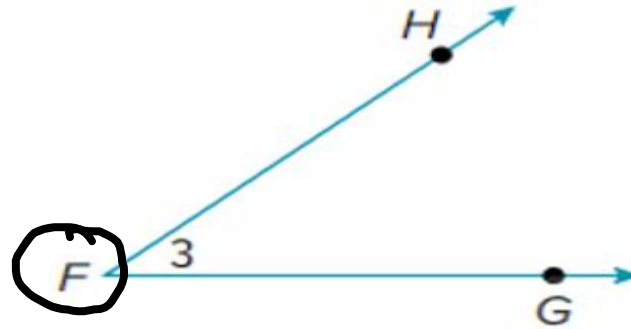
$7(x + 5)$

d.

$40x$

Name the angle in two ways.

سمّ الزاوية بطريقتين.



$\angle HFG$ ✓
 $\angle F$ ✓
 $\angle 3$
 $\angle GFH$

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.

$$x + 5 < 14$$

$$\begin{array}{r} x + 5 < 14 \\ -5 & -5 \\ \hline x < 9 \end{array}$$

حل.

$$x + 5 < 14$$

Learning Outcomes Covered

◦ MAT.3.02.11.002

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

Learning Outcomes Covered

◦ MAT.3.07.04.001

a.

$$P - 90 \leq 15.50$$

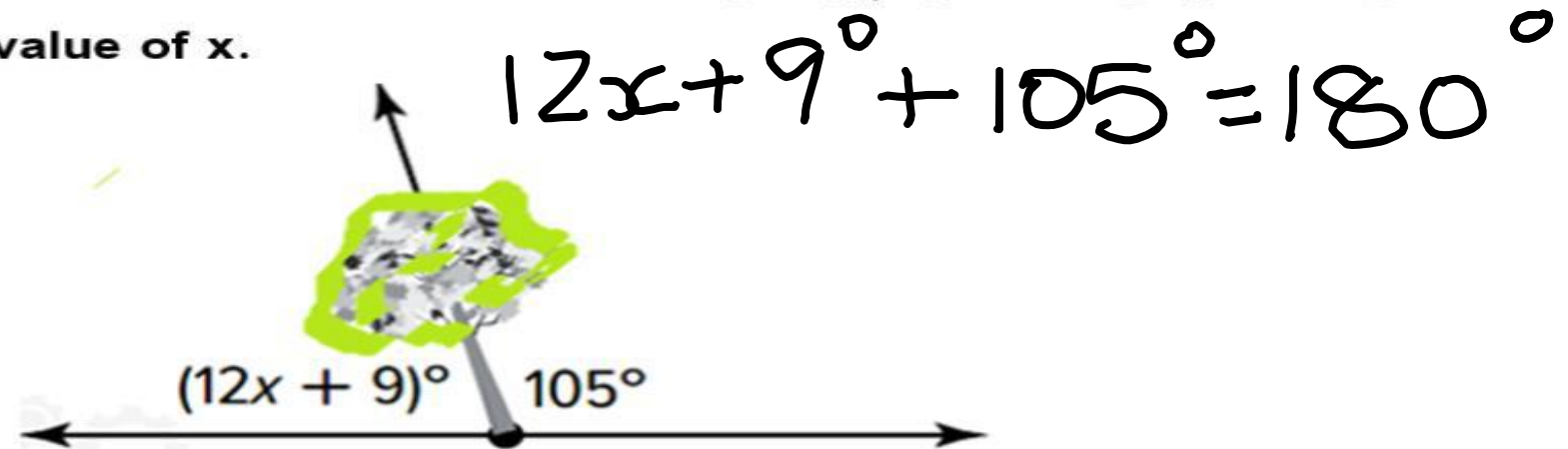


b.

$$P - 90 \geq 15.50$$

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 .



Learning Outcomes Covered

◦ MAT.3.07.04.001

a. $12x + 9 + 105 = 90^\circ$

b. $12x + 9 + 105 = 180^\circ$

Solve the inequality.

$$-4x \geq -36$$

Learning Outcomes Covered

◦ MAT.3.07.04.001

$$\begin{array}{r} -4x \geq -36 \\ \hline \begin{array}{l} -4 \quad \downarrow \\ x \leq 9 \end{array} \end{array}$$

حل المتباينة.

$$-4x \geq -36$$

a. $x \leq 9$

b. $x \geq 9$

c. $x \geq -9$

$x \leq -9$

Solve the equation.

$$0.5x + 2 = 17$$

حل المعادلة.

$$0.5x + 2 = 17$$

$$\begin{array}{r|l} 0.5x + 2 = 17 & \\ -2 & -2 \\ \hline 0.5x = 15 & \\ \hline 0.5 & 0.5 \\ \hline x = 30 & \end{array}$$

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.

$$54 - 6d = 18$$

Learning Outcomes Covered

◦ MAT.3.07.04.001

a.

$$6 + 54d = 18$$

b.

$$54 + 6d = 18$$

c.

$$6 - 54d = 18$$

✓

$$54 - 6d = 18$$

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

Solve the equation.

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

Learning Outcomes Covered

◦ MAT.3.07.04.001

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

حل المعادلة.

$$-\frac{8}{15}(-\frac{15}{8})x = \frac{1}{1}(-\frac{8}{15}) \cdot 1\frac{7}{8}x = 4\frac{1}{2}$$

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

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

a.

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

b.

$$x = \frac{15}{8}$$

c.

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

5

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

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

Learning Outcomes Covered

◦ MAT.3.07.04.001

$2n - 8$

a.



$2n + 8$

b.



$-2n + 8$

c.



$14n - 10$

d.



solve the inequality.

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

Learning Outcomes Covered

◦ MAT.3.07.04.001

حل المتباينة.

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

$$+ 9\frac{1}{3} \quad + 9\frac{1}{3} \times 3$$

$$\left(\frac{1}{3}\right) \times 3 \quad \left(\frac{1}{9}\right) \times 3$$

$$2z > 49\frac{9}{9}$$

$$z > \frac{49}{9}$$

a.

$$z > \frac{49}{9}$$



b.

$$z > \frac{98}{9}$$

c.

$$z > \frac{8}{9}$$

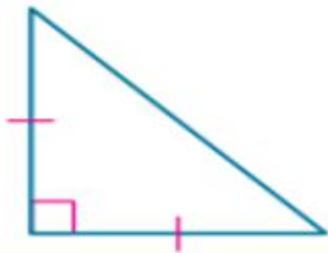
$$z < \frac{9}{9}$$

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.

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

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

$$-42 \geq x$$

$$x \leq -42$$

$$-6 \geq \frac{x}{7} \quad \text{حل}$$

Learning Outcomes Covered

◦ MAT.3.02.11.002

a. $x \leq -42$



b. $x \geq -42$

c. $x \leq 42$

$x > 42$

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.

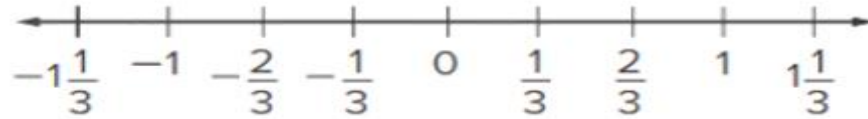
$10b^2$

مثل مجموعة حل المتباينة على مستقيم الأعداد.

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

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

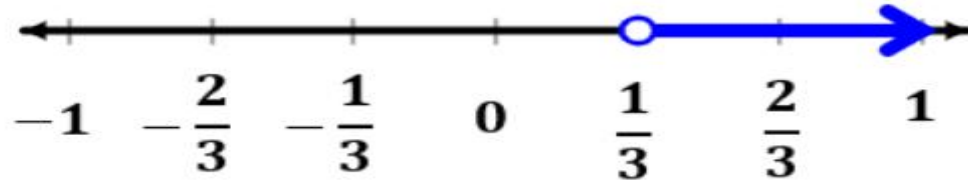
$$x < \frac{1}{3}$$



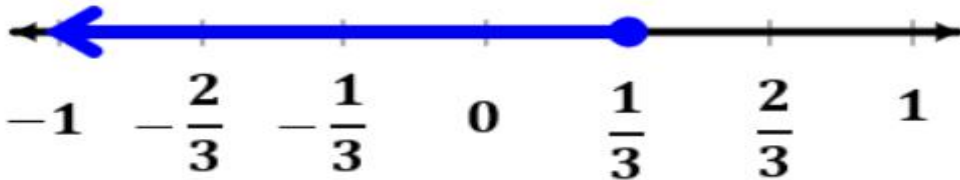
Learning Outcomes Covered

- MAT.3.07.04.001

a.



b.



Solve the equation.

$$x + 7 = 2$$

حل المعادلة.

$$x + 7 = 2$$

$$\begin{array}{r} x + 7 = 2 \\ -7 \quad -7 \\ \hline x = -5 \end{array}$$

Learning Outcomes Covered

◦ MAT.3.02.11.002

a. $x = -9$

b. $x = 5$

c. $x = -5$

d. $x = 7$



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

اجمع $(-5x + 6) + (-4x - 7)$

Learning Outcomes Covered

◦ MAT.3.07.04.001

$$\begin{array}{r} -5x \\ + (-4x) \\ \hline -9x - 1 \end{array}$$

a.

$$-9x + 1$$

b.

$$9x + 13$$

c.

$$-9x - 1$$



d.

$$x + 13$$