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Evaluate each expression.

1) $(6-2)^2$

2) $5+4\times 3$

3) $(11+1)\div 2$

4) $5-(4-2)$

5) $2+5-3$

6) $(6-5)\times 3$

7) $(1+5)\times 2$

8) $(5-3)^3$

9) $6-(5-4)$

10) $12\div 2+6$

Solve each equation.

11) $x+20=27$

12) $\frac{x}{4}=9$

13) $10=\frac{a}{20}$

14) $5=p-5$

15) $4=-13+m$

16) $\frac{r}{3}=-10$

17) $-12=\frac{k}{7}$

18) $\frac{m}{4}=-\frac{1}{4}$

19) $15+n=35$

20) $-9=n+3$

21) Last week Alberto ran 30 miles less than Kayla. Alberto ran 11 miles. How many miles did Kayla run?

22) Shawna paid $5 for a sandwich. She now has $26. How much money did she have before buying the sandwich?

23) Six years ago, Ted was 59 years old. How old is he now?

24) How old is Stephanie if she will be 80 years old in fifteen years?

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25) Pranav and his best friend found some money under the couch. They split the money evenly, each getting $17. How much money did they find?

26) Mofor and nine of his friends went out to eat. They decided to split the bill evenly. Each person paid $10. What was the total bill?

27) Jack and 9 of his friends went out to eat. They decided to split the bill evenly. Each person paid $9. What was the total bill?

28) Five workers are hired to harvest strawberries from a field. Each is given a plot which is 10×7 feet in size. What is the total area of the field?

29) Daniel won 80 pieces of gum playing horseshoes at his school's game night. Later, he gave one to each of his friends. He only has 67 remaining. How many did he give away?

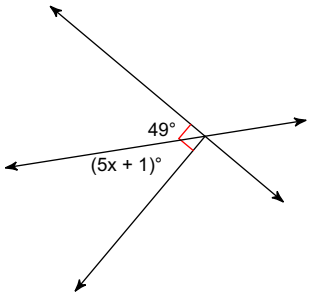
30) Last week Maria ran 27 miles more than Darryl. Maria ran 38 miles. How many miles did Darryl run?

31) Last week Kim ran 9 miles less than Darryl. Kim ran 19 miles. How many miles did Darryl run?

32) Pranav ran 15 miles less than Totsakan last week. Pranav ran 12 miles. How many miles did Totsakan run?

Find the value of x.

33)



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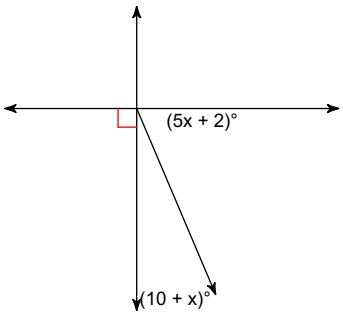

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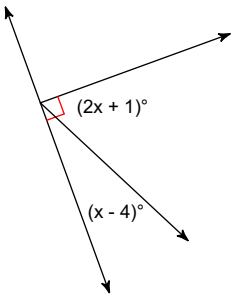

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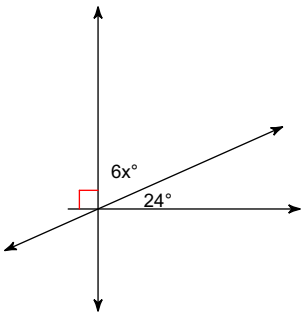

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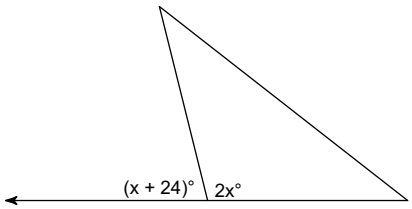

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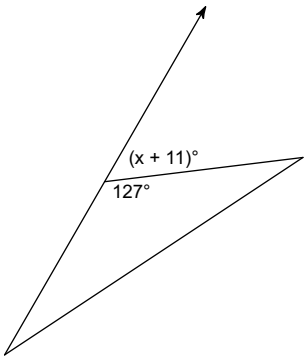

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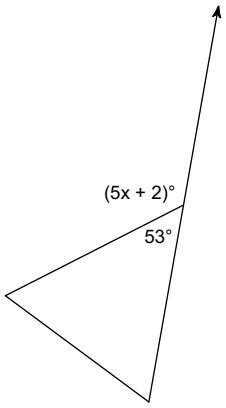

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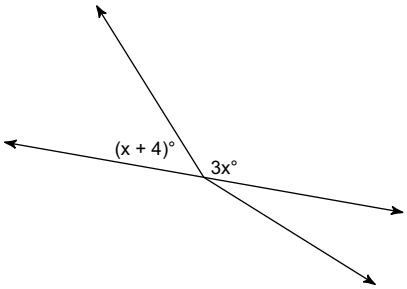
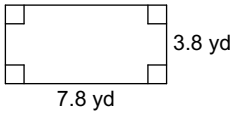


Find the area of each.

41)



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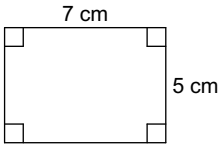

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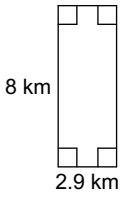

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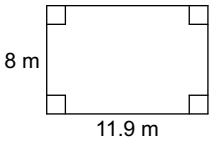

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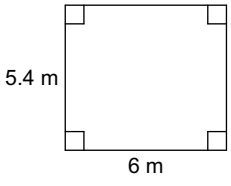

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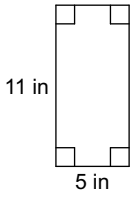

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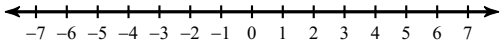
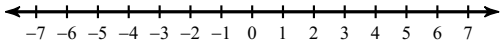
Draw a graph for each inequality.

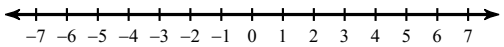
47) $0 \geq -k$



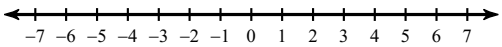
48) $1 \geq -n$



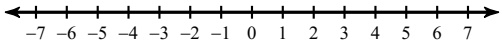
49) $-x > -2$



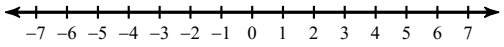
50) $-6 < -x$



51) $-m < -3$

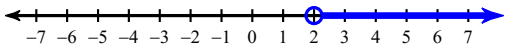


52) $4 > -x$



Write an inequality for each graph.

53)



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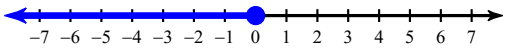

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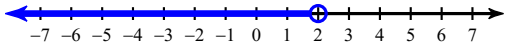

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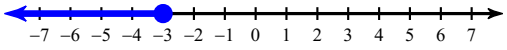

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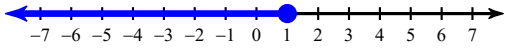

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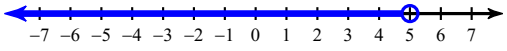

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Evaluate each expression.

1) $(6-2)^2$

16

2) $5+4\times3$

17

3) $(11+1)\div2$

6

4) $5-(4-2)$

3

5) $2+5-3$

4

6) $(6-5)\times3$

3

7) $(1+5)\times2$

12

8) $(5-3)^3$

8

9) $6-(5-4)$

5

10) $12\div2+6$

12

Solve each equation.

11) $x+20=27$

$\{7\}$

12) $\frac{x}{4}=9$

$\{36\}$

13) $10=\frac{a}{20}$

$\{200\}$

14) $5=p-5$

$\{10\}$

15) $4=-13+m$

$\{17\}$

16) $\frac{r}{3}=-10$

$\{-30\}$

17) $-12=\frac{k}{7}$

$\{-84\}$

18) $\frac{m}{4}=-\frac{1}{4}$

$\{-1\}$

19) $15+n=35$

$\{20\}$

20) $-9=n+3$

$\{-12\}$

21) Last week Alberto ran 30 miles less than Kayla. Alberto ran 11 miles. How many miles did Kayla run?

41

22) Shawna paid $5 for a sandwich. She now has $26. How much money did she have before buying the sandwich?

$31

23) Six years ago, Ted was 59 years old. How old is he now?

65

24) How old is Stephanie if she will be 80 years old in fifteen years?

65

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25) Pranav and his best friend found some money under the couch. They split the money evenly, each getting $17. How much money did they find?

$34

26) Mofor and nine of his friends went out to eat. They decided to split the bill evenly. Each person paid $10. What was the total bill?

$100

27) Jack and 9 of his friends went out to eat. They decided to split the bill evenly. Each person paid $9. What was the total bill?

$90

28) Five workers are hired to harvest strawberries from a field. Each is given a plot which is 10×7 feet in size. What is the total area of the field?

350

29) Daniel won 80 pieces of gum playing horseshoes at his school's game night. Later, he gave one to each of his friends. He only has 67 remaining. How many did he give away?

13

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11

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28

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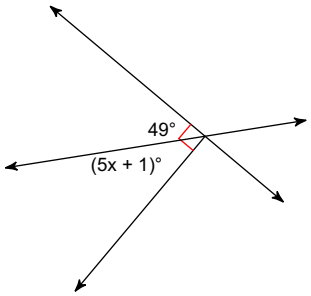
27

Find the value of x.

33)



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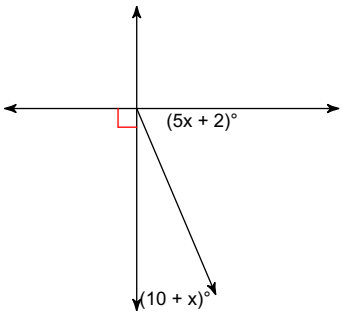

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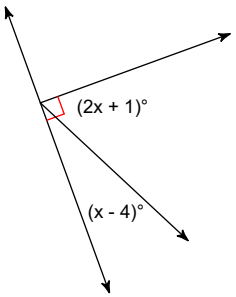

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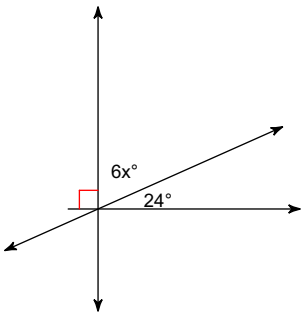

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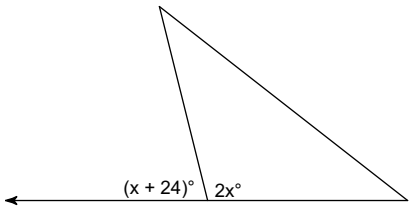

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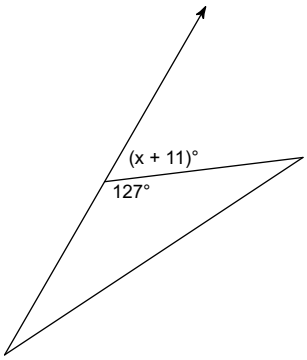

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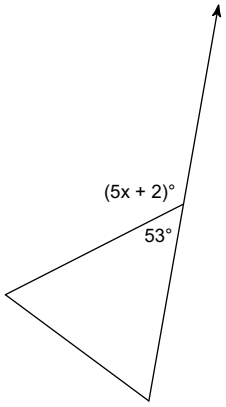

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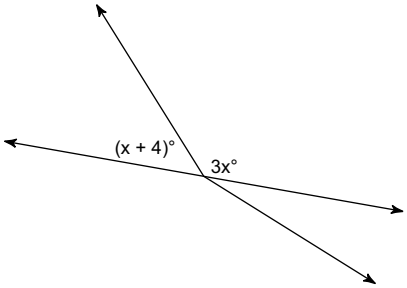
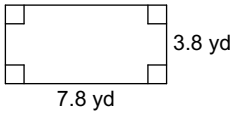


44

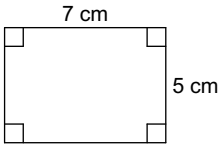
Find the area of each.

41)



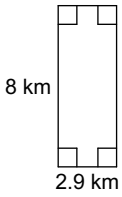
29.64 yd²

42)



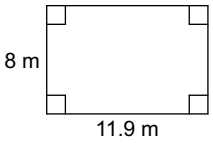
35 cm²

43)



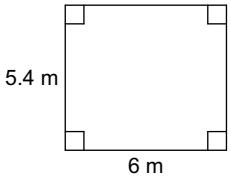
23.2 km²

44)



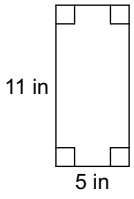
95.2 m²

45)



32.4 m²

46)



55 in²

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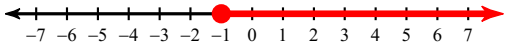
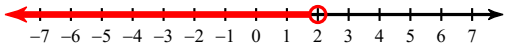
Draw a graph for each inequality.

47) $0 \geq -k$

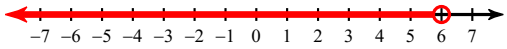
48) $1 \geq -n$



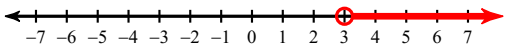
49) $-x > -2$



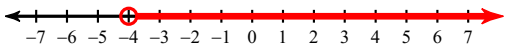
50) $-6 < -x$



51) $-m < -3$

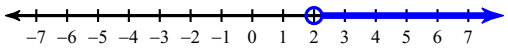


52) $4 > -x$



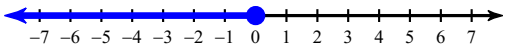
Write an inequality for each graph.

53)



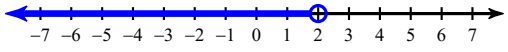
$x > 2$

54)



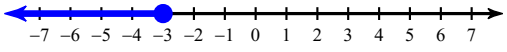
$k \leq 0$

55)



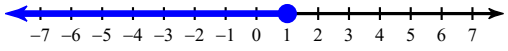
$b < 2$

56)



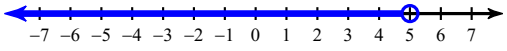
$x \leq -3$

57)



$b \leq 1$

58)



$r < 5$

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