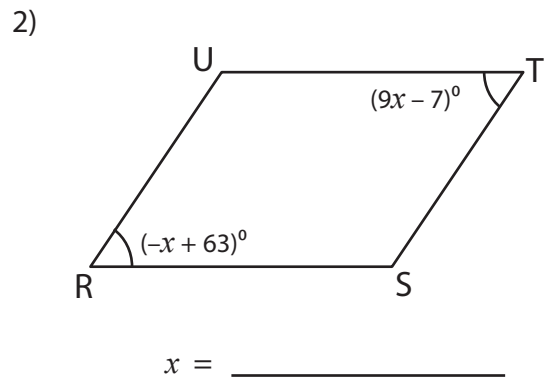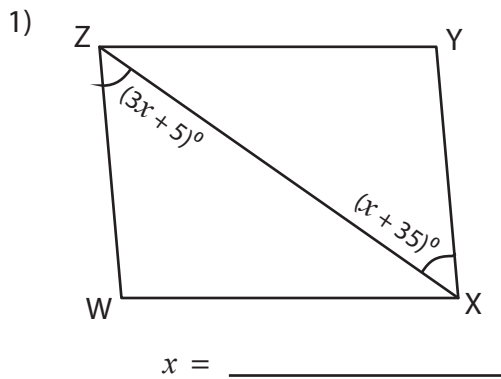Name : _____

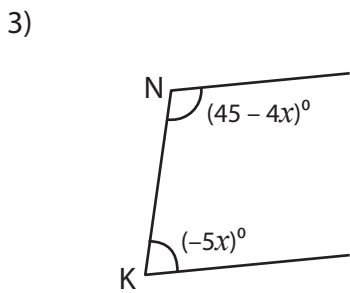## Parallelogram - Angles

A)   Find the value of x and then find the measure of the indicated angle in each parallelogram.

1)

Z ——————— Y
$(3x + 5)^o$
$(x + 35)^o$
W ——————— X

$x =$ _____

$m\angle YXZ =$ _____

2)

U ——————— T
$(9x - 7)^o$
$(-x + 63)^o$
R ——————— S

$x =$ _____

3)

N
$(45 - 4x)^o$
$(-5x)^o$
K

$x =$ _____

$m\angle L =$ _____

E
$3x)^o$
$-2x - 5)^o$ 52°
D

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B)   Find the value of x ar _____ ach parallelogram.

5)

Y ——————
V ——————— W

$m\angle VWX = (3x + 25)^0 ; m\angle XYV = (-41 + 9x)^0$

$x =$ _____

$m\angle X =$ _____

$m\angle Y =$ _____

C
A   B

$m\angle CAB = (x + 39)^0 ; m\angle ACD = (5 - x)^0 ; m\angle ADC = 130^0$

$x =$ _____

$m\angle CAB =$ _____

$m\angle ACB =$ _____

Answer key

Parallelogram - Angles

A) Find the value of x and then find the measure of the indicated angle in each parallelogram.

1)

Z — Y
$(3x + 5)^o$
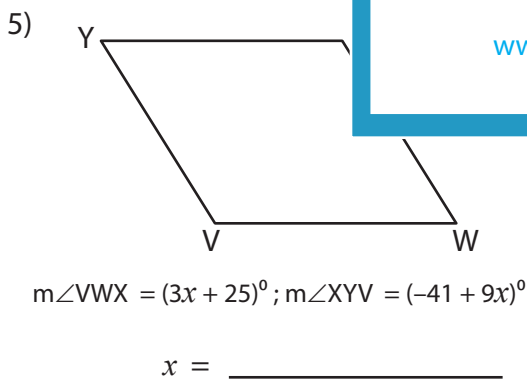$(x + 35)^o$
W — X

$x =$ __**15**__

$m\angle YXZ =$ ____

2)

U — T
$(9x - 7)^0$
$(-x + 63)^0$
R — S

$x =$ __**7**__

__**124⁰**__

3)

N
$(45 - 4x)^0$
$(-5x)^0$
K

$x =$ ____

$m\angle L =$ __**1**__

E
$3x)^o$
$-2x - 5)^0$ 52^0
D

__**−30**__

__**73⁰**__

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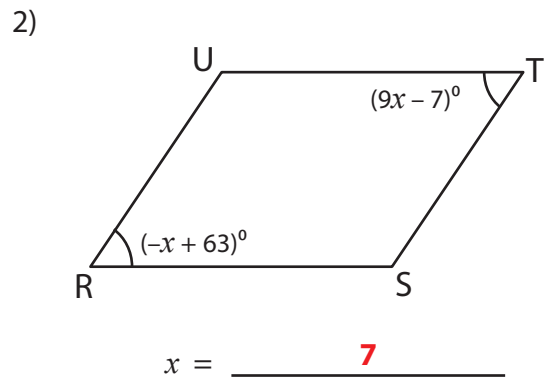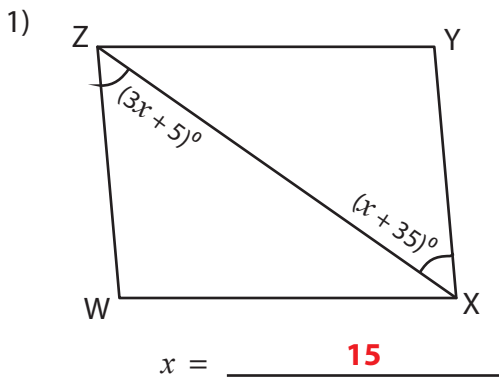
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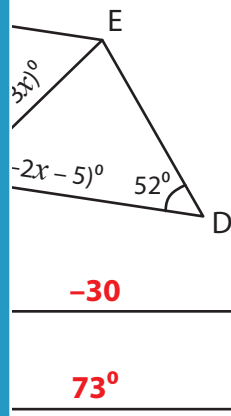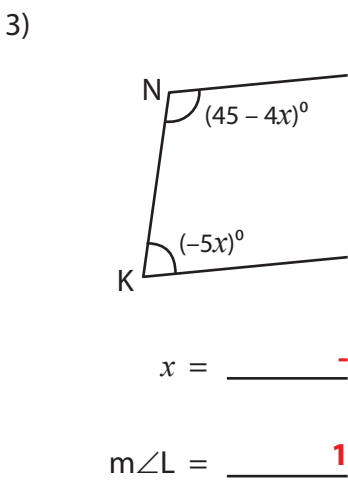Not a member? Please sign up to gain complete access.

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B) Find the value of x a_____ach parallelogram.

5)

Y
V — W

$m\angle VWX = (3x + 25)^0$; $m\angle XYV = (-41 + 9x)^0$

$x =$ __**11**__

$m\angle X =$ __**122⁰**__

$m\angle Y =$ __**58⁰**__

C
A   B

$m\angle CAB = (x + 39)^0$; $m\angle ACD = (5 - x)^0$; $m\angle ADC = 130^0$

$x =$ __**−17**__

$m\angle CAB =$ __**22⁰**__

$m\angle ACB =$ __**28⁰**__