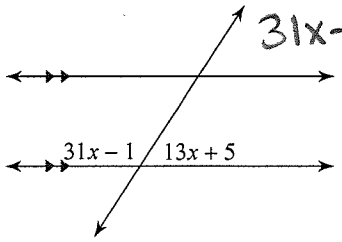
Geometry - Clausi Name_____ ID: 1

April 6 - 8 Assignment

Date_____ Period____

Solve for *x*.

1)

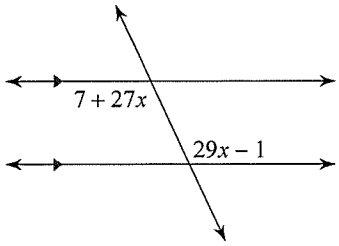


$31x-1+13x+5=180$

$44x+4=180$

$X=4$

2)



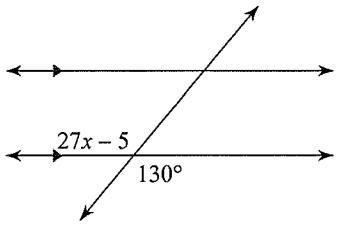
$7+27x=29x-1$

$7=2x-1$

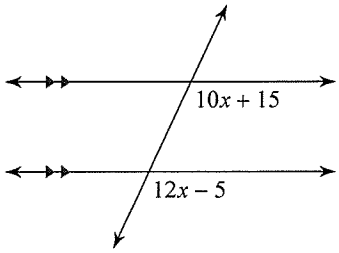
$8=2x$

$X=4$

3)



4)



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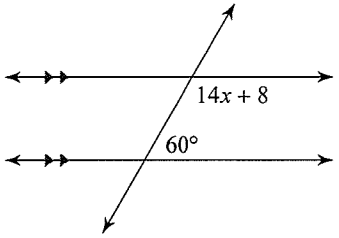

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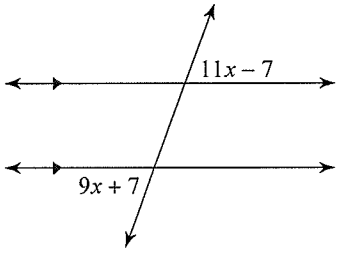

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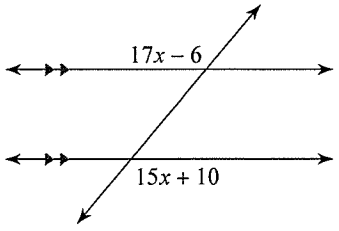

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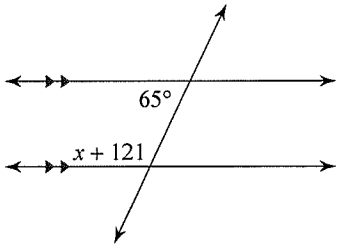

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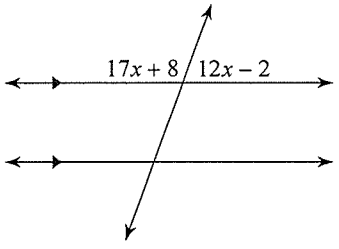

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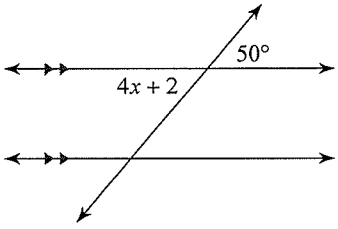


Find the midpoint of the line segment with the given endpoints. $MP = \left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$

11) $(-8, -2)$, $(-1, -7)$

12) $(-10, -10)$, $(-5, 0)$

13) $(1, -9)$, $(-10, -5)$

14) $(5, -5)$, $(-9, 0)$

$d = \sqrt{(x_2-x_1)^2+(y_2-y_1)^2}$

Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

15) $(8, 4)$, $(-5, 6)$

16) $(2, 6)$, $(-8, -4)$

17) $(2, 4)$, $(-4, 6)$

18) $(-3, 7)$, $(8, -2)$

Find the slope of the line through each pair of points. $m = \frac{y_2-y_1}{x_2-x_1}$

19) $(-14, 9)$, $(-17, 6)$

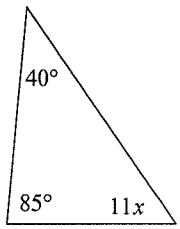
20) $(-5, -5)$, $(-2, 8)$

21) $(16, -5)$, $(-2, 18)$

22) $(-11, -11)$, $(-7, 18)$

Solve for *x*. The angles in a △ add up to 180°.

23)



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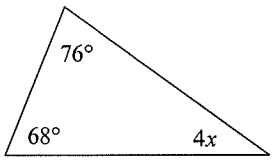

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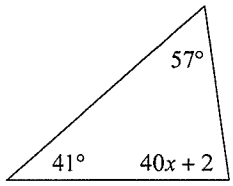

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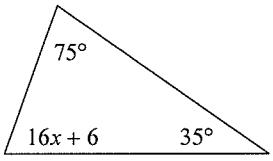

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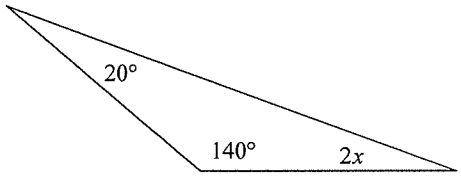

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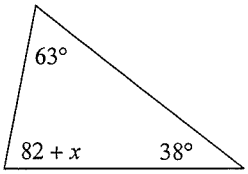

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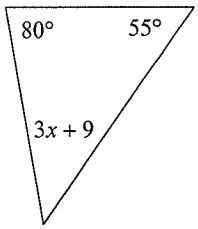

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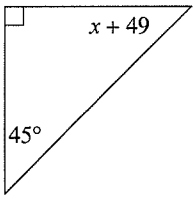

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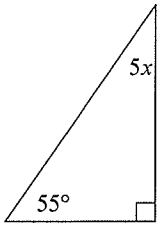

32)