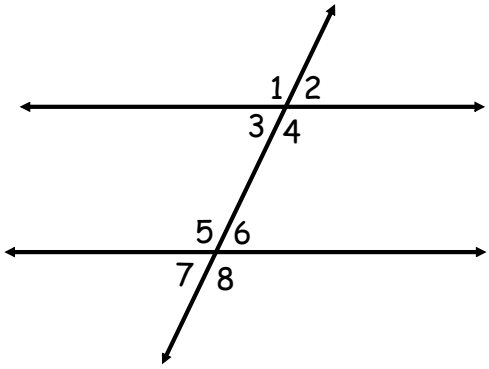
Do Now



Name the angle pairs:

A) <3 & <6

Alternate Interior

B) <1 & <4

Vertical

C) <1 & <8

Alternate Exterior

D) <6 & <2

Corresponding

Feb 2-6:14 PM

Homework Answers

1) $\angle 2 = 112°$
$\angle 3 = 112°$
$\angle 4 = 68°$
$\angle 5 = 68°$
$\angle 6 = 112°$
$\angle 7 = 112°$
$\angle 8 = 68°$

2) $\angle 1 = 134°$
$\angle 2 = 46°$
$\angle 3 = 134°$
$\angle 4 = 46°$
$\angle 5 = 134°$
$\angle 6 = 46°$
$\angle 8 = 46°$

3) $\angle 1 = 83°$
$\angle 2 = 97°$
$\angle 3 = 83°$
$\angle 4 = 97°$
$\angle 5 = 83°$
$\angle 6 = 97°$
$\angle 8 = 83°$

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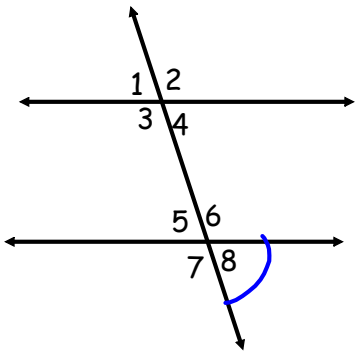

1) If the m<4 = 6x and m<5 = 4x + 14

a) Name the angle pair

Alternate Interior

b) What is the value of x?

$6x = \cancel{4x} + 14$
$-4x \quad -\cancel{4x}$

$\frac{2x}{2} = \frac{14}{2}$

$\boxed{x = 7}$

c) What is the degree measure of <8?

$m<4 = 6(7)$
$<4 = 42°$

<4 corresponds to <8

$\boxed{m<8 = 42°}$

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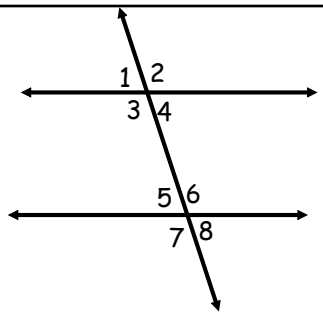
2) If m<1 = 3x and m<8 = 4x - 9



A) Name the angle pair

Alternate Exterior

B) Find x

$3x = \cancel{4x} - 9$
$-4x \quad -\cancel{4x}$

$\frac{-x}{-1} = \frac{-9}{-1}$

$x = 9$

C) Find the m<6

$m<1 = 3x$
$= 3(9)$
$= 27°$

$180 - 27$

$\boxed{m<6 = 153°}$

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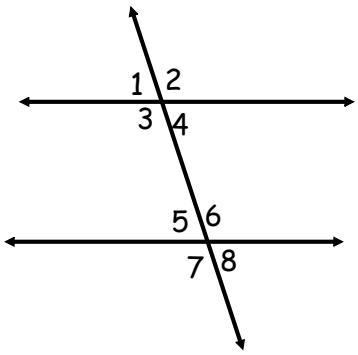

If the m<2 = 9x – 20 and m<6 = 7x + 18

a) Name the angle pair Corresponding

b) What is the value of x?

$9x - 20 = \cancel{7x} + 18$
$-7x \quad -7x$
$2x - 20 = 18$
$2x = 38$
$x = 19$

c) What is the degree measure of <3?

$m<2 = 9x - 20$
$= 9(19) - 20$
$m<2 = 151°$

$\boxed{m<3 = 151°}$

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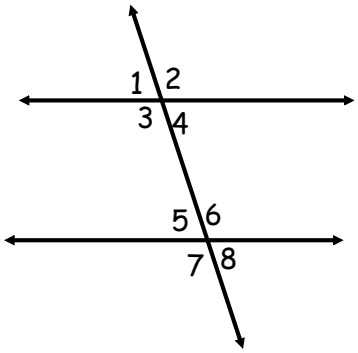

4) If the m<5 = 17x – 11 and m<8 = 10x + 17

a) Name the angle pair Vertical

b) What is the value of x?

$17x - 11 = 10x + 17$
$+11 \quad +11$
$17x = 10x + 28$
$-10x \quad -10x$
$\frac{7x}{7} = \frac{28}{7}$
$\boxed{x = 4}$

c) What is the degree measure of <2?

$m<5 = 17x - 11$
$17(4) - 11$
$m<5 = 57°$

$180 - 57$
$m<2 = 123°$

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