p and q are parallel
measure angle 1 is 75
measure angle 2 is 43

Trans

$\angle 3 = 105$ s
$\angle 5 = 75$ c
$\angle 4 = 105$ c-s

trans

$\angle 7 = 43$ v
$\angle 8 = 43$ a
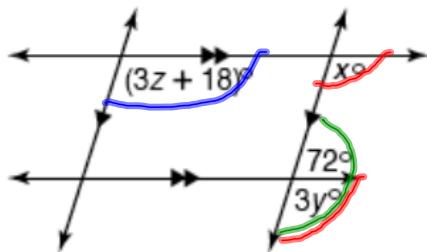$\angle 6 = 137$
$\angle 9 = 137$

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Trans

$(3x + 5)°$
$(y + 8)°$
$(6x - 14)°$

$(8x + 40)°$ $7y°$
$6x°$ $(3y - 10)°$

Find "x" o "y"

$(3x+5) + (6x-14) = 180$
$9x - 9 = 180$
$9x = 189$
$x = 21$

$y + 8 = 3x + 5$
$y + 8 = 3(21) + 5$
$y + 8 = 63 + 5$
$y + 8 = 68$ $y = 60$

$6x + (8x + 40) = 180$
$14x + 40 = 180$
$14x = 140$
$x = 10$

$(3y - 10) + 7y = 180$
$10y - 10 = 180$
$10y = 190$
$y = 19$

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1

x

$x = 3y$

$x = 3(36)$

$x = 108$

$x + 72 = 180$

$x = 108$

y

$3y + 72 = 180$

$3y = 108$

$y = 36$

z

$3z + 18 = x$

$3z + 18 = 108$

$3z = 90$

$z = 30$

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x

$x = 90$

y
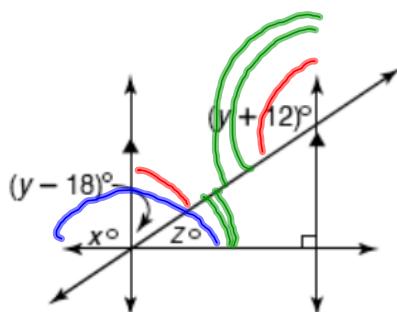
$(y - 18) + (y + 12) = 180$

$2y - 6 = 180$

$2y = 186$

$y = 93$

z

$(y - 18) + x + z = 180$

$z = y + 12$

$z = 93 + 12$

$z = 105$

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2

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$\angle 2 = 115$

$\angle 1 = 115$

$32 + \angle 3 = 180$

$\angle 3 = 148$

$\angle 4 = 148$

$3x - 15 = 2x + 7 \Rightarrow x = 22$

$\angle 6 + (3x - 15) = 180$

$\angle 6 + 3(22) - 15 = 180$

$\angle 6 + 66 - 15 = 180$

$\angle 6 + 51 = 180$

$\angle 6 = 129$

$\angle 5 + (2x + 7) = 180$

$\angle 5 + 2(22) + 7 = 180$

$\angle 5 + 44 + 7 = 180$

$\angle 5 + 51 = 180$

$\angle 5 = 129$

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